

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

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<120> MEMBRANE TRANSPORT PROTEINS

<130> PF-0633 USN

<140> US 09/830,915

<141> 2001-05-01

<150> US 99/26048

<151> 1999-11-04

<150> US 60/121,896

<151> 1999-02-26

<150> US 60/172,214

<151> 1998-12-22

<150> US 60/172,252

<151> 1998-11-24

<150> US 60/172,255

<151> 1998-11-04

<160> 42

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<211> 384

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 961344CD1

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Met Leu Thr Gly Asp Lys Leu Glu Thr Ala Thr Cys Ile Ala Lys

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Ser Ser His Leu Val Ser Arg Thr Gln Asp Ile His Ile Phe Arg

20 25 30

Gln Val Thr Ser Arg Gly Glu Ala His Leu Glu Leu Asn Ala Phe

35	40	45
Arg Arg Lys His Asp Cys Ala Leu Val	Ile Ser Gly Asp Ser	Leu
50	55	60
Glu Val Cys Leu Lys Tyr Tyr Glu His	Glu Phe Val Glu	Leu Ala
65	70	75
Cys Gln Cys Pro Ala Val Val Cys Cys	Arg Cys Ser Pro Thr	Gln
80	85	90
Lys Ala Arg Ile Val Thr Leu Leu Gln	Gln His Thr Gly Arg	Arg
95	100	105
Thr Cys Ala Ile Gly Asp Gly Gly	Asn Asp Val Ser Met	Ile Gln
110	115	120
Ala Ala Asp Cys Gly Ile Gly Ile Glu	Gly Lys Glu Gly Lys	Gln
125	130	135
Ala Ser Leu Ala Ala Asp Phe Ser Ile	Thr Gln Phe Arg His	Ile
140	145	150
Gly Arg Leu Leu Met Val His	Gly Arg Asn Ser Tyr Lys	Arg Ser
155	160	165
Ala Ala Leu Gly Gln Phe Val Met His	Arg Gly Leu Ile Ile	Ser
170	175	180
Thr Met Gln Ala Val Phe Ser Ser Val	Phe Tyr Phe Ala Ser	Val
185	190	195
Pro Leu Tyr Gln Gly Phe Leu Met Val	Gly Tyr Ala Thr Ile	Tyr
200	205	210
Thr Met Phe Pro Val Phe Ser Leu Val	Leu Asp Gln Asp Val	Lys
215	220	225
Pro Glu Met Ala Met Leu Tyr Pro Glu	Leu Tyr Lys Asp Leu	Thr
230	235	240
Lys Gly Arg Ser Leu Ser Phe Lys Thr	Phe Leu Ile Trp Val	Leu
245	250	255
Ile Ser Ile Tyr Gln Gly Gly Ile Leu	Met Tyr Gly Ala Leu	Val
260	265	270
Leu Phe Glu Ser Glu Phe Val His Val	Val Ala Ile Ser Phe	Thr
275	280	285
Ala Leu Ile Leu Thr Glu Leu Leu Met	Val Ala Leu Thr Val	Arg
290	295	300
Thr Trp His Trp Leu Met Val Val Ala	Glu Phe Leu Ser Leu	Gly
305	310	315
Cys Tyr Val Ser Ser Leu Ala Phe Leu	Asn Glu Tyr Phe Gly	Ile
320	325	330
Gly Arg Val Ser Phe Gly Ala Phe Leu	Asp Val Ala Phe Ile	Thr
335	340	345
Thr Val Thr Phe Leu Trp Lys Val Ser	Ala Ile Thr Val Val	Ser
350	355	360
Cys Leu Pro Leu Tyr Val Leu Lys Tyr	Leu Arg Arg Lys Leu	Ser
365	370	375
Pro Pro Ser Tyr Cys Lys Leu Ala Ser		
380		

<210> 2
<211> 846
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3128782CD1

<400> 2

Met	Pro	Lys	Ala	Pro	Lys	Gln	Gln	Pro	Pro	Glu	Pro	Glu	Trp	Ile
1					5				10				15	
Gly	Asp	Gly	Glu	Ser	Thr	Ser	Pro	Ser	Asp	Lys	Val	Val	Lys	Lys
					20				25				30	
Gly	Lys	Lys	Asp	Lys	Lys	Ile	Lys	Lys	Thr	Phe	Phe	Glu	Glu	Leu
					35				40				45	
Ala	Val	Glu	Asp	Lys	Gln	Ala	Gly	Glu	Glu	Glu	Lys	Val	Leu	Lys
					50				55				60	
Glu	Lys	Glu	Gln	Lys										
					65				70				75	
Lys	Lys	Arg	Asp	Thr	Arg	Lys	Gly	Arg	Arg	Lys	Lys	Asp	Val	Asp
					80				85				90	
Asp	Asp	Gly	Glu	Glu	Lys	Glu	Leu	Met	Glu	Arg	Leu	Lys	Lys	Leu
					95				100				105	
Ser	Val	Pro	Thr	Ser	Asp	Glu	Glu	Asp	Glu	Val	Pro	Ala	Pro	Lys
					110				115				120	
Pro	Arg	Gly	Gly	Lys	Lys	Thr	Lys	Gly	Gly	Asn	Val	Phe	Ala	Ala
					125				130				135	
Leu	Ile	Gln	Asp	Gln	Ser	Glu	Glu	Glu	Glu	Glu	Glu	Lys	His	
					140				145				150	
Pro	Pro	Lys	Pro	Ala	Lys	Pro	Glu	Lys	Asn	Arg	Ile	Asn	Lys	Ala
					155				160				165	
Val	Ser	Glu	Glu	Gln	Gln	Pro	Ala	Leu	Lys	Gly	Lys	Lys	Gly	Lys
					170				175				180	
Glu	Glu	Lys	Ser	Lys	Gly	Lys	Ala	Lys	Pro	Gln	Asn	Lys	Phe	Ala
					185				190				195	
Ala	Leu	Asp	Asn	Glu	Glu	Glu	Asp	Lys	Glu	Glu	Glu	Ile	Ile	Lys
					200				205				210	
Glu	Lys	Glu	Pro	Pro	Lys	Gln	Gly	Lys	Glu	Lys	Ala	Lys	Lys	Ala
					215				220				225	
Glu	Gln	Gly	Ser	Glu	Glu	Glu	Gly	Glu	Gly	Glu	Glu	Glu	Glu	
					230				235				240	
Glu	Gly	Gly	Glu	Ser	Lys	Ala	Asp	Asp	Pro	Tyr	Ala	His	Leu	Ser
					245				250				255	
Lys	Lys	Glu	Lys	Lys	Lys	Leu	Lys	Lys	Gln	Met	Glu	Tyr	Glu	Arg
					260				265				270	
Gln	Val	Ala	Ser	Leu	Lys	Ala	Ala	Asn	Ala	Ala	Glu	Asn	Asp	Phe
					275				280				285	
Ser	Val	Ser	Gln	Ala	Glu	Met	Ser	Ser	Arg	Gln	Ala	Met	Leu	Glu
					290				295				300	
Asn	Ala	Ser	Asp	Ile	Lys	Leu	Glu	Lys	Phe	Ser	Ile	Ser	Ala	His
					305				310				315	
Gly	Lys	Glu	Leu	Phe	Val	Asn	Ala	Asp	Leu	Tyr	Ile	Val	Ala	Gly
					320				325				330	
Arg	Arg	Tyr	Gly	Leu	Val	Gly	Pro	Asn	Gly	Lys	Gly	Lys	Thr	Thr
					335				340				345	
Leu	Leu	Lys	His	Ile	Ala	Asn	Arg	Ala	Leu	Ser	Ile	Pro	Pro	Asn
					350				355				360	
Ile	Asp	Val	Leu	Leu	Cys	Glu	Gln	Glu	Val	Val	Ala	Asp	Glu	Thr
					365				370				375	

Pro Ala Val Gln Ala Val Leu Arg Ala Asp Thr Lys Arg Leu Lys
 380 385 390
 Leu Leu Glu Glu Glu Arg Arg Leu Gln Gly Gln Leu Glu Gln Gly
 395 400 405
 Asp Asp Thr Ala Ala Glu Arg Leu Glu Lys Val Tyr Glu Glu Leu
 410 415 420
 Arg Ala Thr Gly Ala Ala Ala Glu Ala Lys Ala Arg Arg Ile
 425 430 435
 Leu Ala Gly Leu Gly Phe Asp Pro Glu Met Gln Asn Arg Pro Thr
 440 445 450
 Gln Lys Phe Ser Gly Gly Trp Arg Met Arg Val Ser Leu Ala Arg
 455 460 465
 Ala Leu Phe Met Glu Pro Thr Leu Leu Met Leu Asp Glu Pro Thr
 470 475 480
 Asn His Leu Asp Leu Asn Ala Val Ile Trp Leu Asn Asn Tyr Leu
 485 490 495
 Gln Gly Trp Arg Lys Thr Leu Leu Ile Val Ser His Asp Gln Gly
 500 505 510
 Phe Leu Asp Asp Val Cys Thr Asp Ile Ile His Leu Asp Ala Gln
 515 520 525
 Arg Leu His Tyr Tyr Arg Gly Asn Tyr Met Thr Phe Lys Lys Met
 530 535 540
 Tyr Gln Gln Lys Gln Lys Glu Leu Leu Lys Gln Tyr Glu Lys Gln
 545 550 555
 Glu Lys Lys Leu Lys Glu Leu Lys Ala Gly Gly Lys Ser Thr Lys
 560 565 570
 Gln Ala Glu Lys Gln Thr Lys Glu Ala Leu Thr Arg Lys Gln Gln
 575 580 585
 Lys Cys Arg Arg Lys Asn Gln Asp Glu Glu Ser Gln Glu Ala Pro
 590 595 600
 Glu Leu Leu Lys Arg Pro Lys Glu Tyr Thr Val Arg Phe Thr Phe
 605 610 615
 Pro Asp Pro Pro Pro Leu Ser Pro Pro Val Leu Gly Leu His Gly
 620 625 630
 Val Thr Phe Gly Tyr Gln Gly Gln Lys Pro Leu Phe Lys Asn Leu
 635 640 645
 Asp Phe Gly Ile Asp Met Asp Ser Arg Ile Cys Ile Val Gly Pro
 650 655 660
 Asn Gly Val Gly Lys Ser Thr Leu Leu Leu Leu Thr Gly Lys
 665 670 675
 Leu Thr Pro Thr His Gly Glu Met Arg Lys Asn His Arg Leu Lys
 680 685 690
 Ile Gly Phe Phe Asn Gln Gln Tyr Ala Glu Gln Leu Arg Met Glu
 695 700 705
 Glu Thr Pro Thr Glu Tyr Leu Gln Arg Gly Phe Asn Leu Pro Tyr
 710 715 720
 Gln Asp Ala Arg Lys Cys Leu Gly Arg Phe Gly Leu Glu Ser His
 725 730 735
 Ala His Thr Ile Gln Ile Cys Lys Leu Ser Gly Gly Gln Lys Ala
 740 745 750
 Arg Val Val Phe Ala Glu Leu Ala Cys Arg Glu Pro Asp Val Leu
 755 760 765
 Ile Leu Asp Glu Pro Thr Asn Asn Leu Asp Ile Glu Ser Ile Asp
 770 775 780
 Ala Leu Gly Glu Ala Ile Asn Glu Tyr Lys Gly Ala Val Ile Val

785	790	795
Val Ser His Asp Ala Arg Leu Ile Thr	Glu Thr Asn Cys Gln	Leu
800	805	810
Trp Val Val Glu Glu Gln Ser Val Ser	Gln Ile Asp Gly Asp	Phe
815	820	825
Glu Asp Tyr Lys Arg Glu Val Leu Glu	Ala Leu Gly Glu Val	Met
830	835	840
Val Ser Arg Pro Arg Glu		
845		

<210> 3
<211> 511
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1720440CD1

<400> 3			
Met Glu Asn Arg Asn Glu Phe Val Gly Leu Trp	Leu Gly Met Ala		
1	5	10	15
Lys Leu Gly Val Glu Ala Ala Leu Ile Asn	Thr Asn Leu Arg Arg		
20	25	30	
Asp Ala Leu Leu His Cys Leu Thr Thr	Ser Arg Ala Arg Ala	Leu	
35	40	45	
Val Phe Gly Ser Glu Met Ala Ser Ala Ile	Cys Glu Val His Ala		
50	55	60	
Ser Leu Asp Pro Ser Leu Ser Leu Phe	Cys Ser Gly Ser Trp	Glu	
65	70	75	
Pro Gly Ala Val Pro Pro Ser Thr Glu His	Leu Asp Pro Leu	Leu	
80	85	90	
Lys Asp Ala Pro Lys His Leu Pro Ser	Cys Pro Asp Lys Gly	Phe	
95	100	105	
Thr Asp Lys Leu Phe Tyr Ile Tyr Thr	Ser Gly Thr Thr	Gly Leu	
110	115	120	
Pro Lys Ala Ala Ile Val Val His Ser	Arg Tyr Tyr Arg	Met Ala	
125	130	135	
Ala Leu Val Tyr Tyr Gly Phe Arg Met	Arg Pro Asn Asp	Ile Val	
140	145	150	
Tyr Asp Cys Leu Pro Leu Tyr His Ser	Ala Gly Asn Ile Val	Gly	
155	160	165	
Ile Gly Gln Cys Leu Leu His Gly Met	Thr Val Val Ile Arg	Lys	
170	175	180	
Lys Phe Ser Ala Ser Arg Phe Trp Asp	Asp Cys Ile Lys Tyr	Asn	
185	190	195	
Cys Thr Ile Val Gln Tyr Ile Gly Glu	Leu Cys Arg Tyr	Leu Leu	
200	205	210	
Asn Gln Pro Pro Arg Glu Ala Glu Asn	Gln His Gln Val	Arg Met	
215	220	225	
Ala Leu Gly Asn Gly Leu Arg Gln Ser	Ile Trp Thr Asn Phe	Ser	
230	235	240	
Ser Arg Phe His Ile Pro Gln Val Ala	Glu Phe Tyr Gly	Ala Thr	
245	250	255	

Glu	Cys	Asn	Cys	Ser	Leu	Gly	Asn	Phe	Asp	Ser	Gln	Val	Gly	Ala
260									265					270
Cys	Gly	Phe	Asn	Ser	Arg	Ile	Leu	Ser	Ser	Val	Tyr	Pro	Ile	Arg
	275								280					285
Leu	Val	Arg	Val	Asn	Glu	Asp	Thr	Met	Glu	Leu	Ile	Arg	Gly	Pro
	290								295					300
Asp	Gly	Val	Cys	Ile	Pro	Cys	Gln	Pro	Gly	Glu	Pro	Gly	Gln	Leu
	305								310					315
Val	Gly	Arg	Ile	Ile	Gln	Lys	Asp	Pro	Leu	Arg	Arg	Phe	Asp	Gly
	320								325					330
Tyr	Leu	Asn	Gln	Gly	Ala	Asn	Asn	Lys	Lys	Ile	Ala	Lys	Asp	Val
	335								340					345
Phe	Lys	Lys	Gly	Asp	Gln	Ala	Tyr	Leu	Thr	Gly	Asp	Val	Leu	Val
	350								355					360
Met	Asp	Glu	Leu	Gly	Tyr	Leu	Tyr	Phe	Arg	Asp	Arg	Thr	Gly	Asp
	365								370					375
Thr	Phe	Arg	Trp	Lys	Gly	Glu	Asn	Val	Ser	Thr	Thr	Glu	Val	Glu
	380								385					390
Gly	Thr	Leu	Ser	Arg	Leu	Leu	Asp	Met	Ala	Asp	Val	Ala	Val	Tyr
	395								400					405
Gly	Val	Glu	Val	Pro	Gly	Thr	Glu	Gly	Arg	Ala	Gly	Met	Ala	Ala
	410								415					420
Val	Ala	Ser	Pro	Thr	Gly	Asn	Cys	Asp	Leu	Glu	Arg	Phe	Ala	Gln
	425								430					435
Val	Leu	Glu	Lys	Glu	Leu	Pro	Leu	Tyr	Ala	Arg	Pro	Ile	Phe	Leu
	440								445					450
Arg	Leu	Leu	Pro	Glu	Leu	His	Lys	Thr	Gly	Thr	Tyr	Lys	Phe	Gln
	455								460					465
Lys	Thr	Glu	Leu	Arg	Lys	Glu	Gly	Phe	Asp	Pro	Ala	Ile	Val	Lys
	470								475					480
Asp	Pro	Leu	Phe	Tyr	Leu	Asp	Ala	Gln	Lys	Gly	Arg	Tyr	Val	Pro
	485								490					495
Leu	Asp	Gln	Glu	Ala	Tyr	Ser	Arg	Ile	Gln	Ala	Gly	Glu	Glu	Lys
	500								505					510

Leu

<210> 4
<211> 718
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2274290CD1

<400> 4
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Pro Gly Arg Leu Leu Pro Pro Leu Arg Phe Gln Thr Phe Ser Ala
20 25 30
Val Arg Tyr Ser Asp Gly Tyr Arg Ser Ser Ser Leu Leu Arg Ala
35 40 45
Val Ala His Leu Arg Ser Gln Leu Trp Ala His Leu Pro Arg Ala
50 55 60

Pro Leu Ala Pro Arg Trp Ser Pro Ser Ala Trp Cys Trp Val Gly
 65 70 75
 Gly Ala Leu Leu Gly Pro Met Val Leu Ser Lys His Pro His Leu
 80 85 90
 Cys Leu Val Ala Leu Cys Glu Ala Glu Glu Ala Pro Pro Ala Ser
 95 100 105
 Ser Thr Pro His Val Val Gly Ser Arg Phe Asn Trp Lys Leu Phe
 110 115 120
 Trp Gln Phe Leu His Pro His Leu Leu Val Leu Gly Val Ala Val
 125 130 135
 Val Leu Ala Leu Gly Ala Ala Leu Val Asn Val Gln Ile Pro Leu
 140 145 150
 Leu Leu Gly Gln Leu Val Glu Val Val Ala Lys Tyr Thr Arg Asp
 155 160 165
 His Val Gly Ser Phe Met Thr Glu Ser Gln Asn Leu Ser Thr His
 170 175 180
 Leu Leu Ile Leu Tyr Gly Val Gln Gly Leu Leu Thr Phe Gly Tyr
 185 190 195
 Leu Val Leu Leu Ser His Val Gly Glu Arg Met Ala Val Asp Met
 200 205 210
 Arg Arg Ala Leu Phe Ser Ser Leu Leu Arg Gln Asp Ile Thr Phe
 215 220 225
 Phe Asp Ala Asn Lys Thr Gly Gln Leu Val Ser Arg Leu Thr Thr
 230 235 240
 Asp Val Gln Glu Phe Lys Ser Ser Phe Lys Leu Val Ile Ser Gln
 245 250 255
 Gly Leu Arg Ser Cys Thr Gln Val Ala Gly Cys Leu Val Ser Leu
 260 265 270
 Ser Met Leu Ser Thr Arg Leu Thr Leu Leu Leu Met Val Ala Thr
 275 280 285
 Pro Ala Leu Met Gly Val Gly Thr Leu Met Gly Ser Gly Leu Arg
 290 295 300
 Lys Leu Ser Arg Gln Cys Gln Glu Gln Ile Ala Arg Ala Met Gly
 305 310 315
 Val Ala Asp Glu Ala Leu Gly Asn Val Arg Thr Val Arg Ala Phe
 320 325 330
 Ala Met Glu Gln Arg Glu Glu Glu Arg Tyr Gly Ala Glu Leu Glu
 335 340 345
 Ala Cys Arg Cys Arg Ala Glu Glu Leu Gly Arg Gly Ile Ala Leu
 350 355 360
 Phe Gln Gly Leu Ser Asn Ile Ala Phe Asn Cys Met Val Leu Gly
 365 370 375
 Thr Leu Phe Ile Gly Gly Ser Leu Val Ala Gly Gln Gln Leu Thr
 380 385 390
 Gly Gly Asp Leu Met Ser Phe Leu Val Ala Ser Gln Thr Val Gln
 395 400 405
 Arg Ser Met Ala Asn Leu Ser Val Leu Phe Gly Gln Val Val Arg
 410 415 420
 Gly Leu Ser Ala Gly Ala Arg Val Phe Glu Tyr Met Ala Leu Asn
 425 430 435
 Pro Cys Ile Pro Leu Ser Gly Gly Cys Cys Val Pro Lys Glu Gln
 440 445 450
 Leu Arg Gly Ser Val Thr Phe Gln Asn Val Cys Phe Ser Tyr Pro
 455 460 465
 Cys Arg Pro Gly Phe Glu Val Leu Lys Asp Phe Thr Leu Thr Leu

	470	475	480
Pro Pro Gly Lys Ile Val Ala Leu Val	Gly Gln Ser Gly Gly		
485	490	495	
Lys Thr Thr Val Ala Ser Leu Leu Glu	Arg Phe Tyr Asp Pro	Thr	
500	505	510	
Ala Gly Val Val Met Leu Asp Gly Arg	Asp Leu Arg Thr Leu Asp		
515	520	525	
Pro Ser Trp Leu Arg Gly Gln Val Val	Gly Phe Ile Ser Gln	Glu	
530	535	540	
Pro Val Leu Phe Gly Thr Thr Ile Met	Glu Asn Ile Arg Phe	Gly	
545	550	555	
Lys Leu Glu Ala Ser Asp Glu Glu Val	Tyr Thr Ala Ala Arg	Glu	
560	565	570	
Ala Asn Ala His Glu Phe Ile Thr Ser	Phe Pro Glu Gly Tyr	Asn	
575	580	585	
Thr Val Val Gly Glu Arg Gly Thr Thr	Leu Ser Gly Gly Gln	Lys	
590	595	600	
Gln Arg Leu Ala Ile Ala Arg Ala Leu	Ile Lys Gln Pro Thr	Val	
605	610	615	
Leu Ile Leu Asp Glu Ala Thr Ser Ala	Leu Asp Ala Glu Ser	Glu	
620	625	630	
Arg Val Val Gln Glu Ala Leu Asp Arg	Ala Ser Ala Gly Arg	Thr	
635	640	645	
Val Leu Val Ile Ala His Arg Leu Ser	Thr Val Arg Gly Ala	His	
650	655	660	
Cys Ile Val Val Met Ala Asp Gly Arg	Val Trp Glu Ala Gly	Thr	
665	670	675	
His Glu Glu Leu Leu Lys Lys Gly Gly	Leu Tyr Ala Glu Leu	Ile	
680	685	690	
Arg Arg Gln Ala Leu Asp Ala Pro Arg	Thr Ala Ala Pro Pro	Pro	
695	700	705	
Lys Lys Pro Glu Gly Pro Arg Ser His	Gln His Lys Ser		
710	715		

<210> 5
<211> 635
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2740029CD1

<400> 5

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Gly Thr Ser Val Gly Met Ser Thr Phe Ser	Ile Met Asp Tyr Val		
20	25	30	
Val Phe Val Leu Leu Val Leu Ser Leu Ala	Ile Gly Leu Tyr		
35	40	45	
His Ala Cys Arg Gly Trp Gly Arg His	Thr Val Gly Glu Leu	Leu	
50	55	60	
Met Ala Asp Arg Lys Met Gly Cys Leu	Pro Val Ala Leu Ser	Leu	
65	70	75	

Leu Ala Thr Phe Gln Ser Ala Val Ala Ile Leu Gly Val Pro Ser
 80 85 90
 Glu Ile Tyr Arg Phe Gly Thr Gln Tyr Trp Phe Leu Gly Cys Cys
 95 100 105
 Tyr Phe Leu Gly Leu Leu Ile Pro Ala His Ile Phe Ile Pro Val
 110 115 120
 Phe Tyr Arg Leu His Leu Thr Ser Ala Tyr Glu Tyr Leu Glu Leu
 125 130 135
 Arg Phe Asn Lys Thr Val Arg Val Cys Gly Thr Val Thr Phe Ile
 140 145 150
 Phe Gln Met Val Ile Tyr Met Gly Val Val Leu Tyr Ala Pro Ser
 155 160 165
 Leu Ala Leu Asn Ala Val Thr Gly Phe Asp Leu Trp Leu Ser Val
 170 175 180
 Leu Ala Leu Gly Ile Val Cys Thr Val Tyr Thr Ala Leu Gly Gly
 185 190 195
 Leu Lys Ala Val Ile Trp Thr Asp Val Phe Gln Thr Leu Val Met
 200 205 210
 Phe Leu Gly Gln Leu Ala Val Ile Ile Val Gly Ser Ala Lys Val
 215 220 225
 Gly Gly Leu Gly Arg Val Trp Ala Val Ala Ser Gln His Gly Arg
 230 235 240
 Ile Ser Gly Phe Glu Leu Asp Pro Asp Pro Phe Val Arg His Thr
 245 250 255
 Phe Trp Thr Leu Ala Phe Gly Gly Val Phe Met Met Leu Ser Leu
 260 265 270
 Tyr Gly Val Asn Gln Ala Gln Val Gln Arg Tyr Leu Ser Ser Arg
 275 280 285
 Thr Glu Lys Ala Ala Val Leu Ser Cys Tyr Ala Val Phe Pro Phe
 290 295 300
 Gln Gln Val Ser Leu Cys Val Gly Cys Leu Ile Gly Leu Val Met
 305 310 315
 Phe Ala Tyr Tyr Gln Glu Tyr Pro Met Ser Ile Gln Gln Ala Gln
 320 325 330
 Ala Ala Pro Asp Gln Phe Val Leu Tyr Phe Val Met Asp Leu Leu
 335 340 345
 Lys Gly Leu Pro Gly Leu Pro Gly Leu Phe Ile Ala Cys Leu Phe
 350 355 360
 Ser Gly Ser Leu Ser Thr Ile Ser Ser Ala Phe Asn Ser Leu Ala
 365 370 375
 Thr Val Thr Met Glu Asp Leu Ile Arg Pro Trp Phe Pro Glu Phe
 380 385 390
 Ser Glu Ala Arg Ala Ile Met Leu Ser Arg Gly Leu Ala Phe Gly
 395 400 405
 Tyr Gly Leu Leu Cys Leu Gly Met Ala Tyr Ile Ser Ser Gln Met
 410 415 420
 Gly Pro Val Leu Gln Ala Ala Ile Ser Ile Phe Gly Met Val Gly
 425 430 435
 Gly Pro Leu Leu Gly Leu Phe Cys Leu Gly Met Phe Phe Pro Cys
 440 445 450
 Ala Asn Pro Pro Gly Ala Val Val Gly Leu Leu Ala Gly Leu Val
 455 460 465
 Met Ala Phe Trp Ile Gly Ile Gly Ser Ile Val Thr Ser Met Gly
 470 475 480
 Ser Ser Met Pro Pro Ser Pro Ser Asn Gly Ser Ser Phe Ser Leu

485	490	495
Pro Thr Asn Leu Thr Val Ala Thr Val	Thr Thr Leu Met Pro	Leu
500	505	510
Thr Thr Phe Ser Lys Pro Thr Gly Leu	Gln Arg Phe Tyr Ser	Leu
515	520	525
Ser Tyr Leu Trp Tyr Ser Ala His Asn	Ser Thr Thr Val Ile	Val
530	535	540
Val Gly Leu Ile Val Ser Leu Leu Thr	Gly Arg Met Arg	Gly Arg
545	550	555
Ser Leu Asn Pro Ala Thr Ile Tyr Pro	Val Leu Pro Lys	Leu
560	565	570
Ser Leu Leu Pro Leu Ser Cys Gln Lys	Arg Leu His Cys Arg	Ser
575	580	585
Tyr Gly Gln Asp His Leu Asp Thr Gly	Leu Phe Pro Glu Lys	Pro
590	595	600
Arg Asn Gly Val Leu Gly Asp Ser Arg	Asp Lys Glu Ala Met	Ala
605	610	615
Leu Asp Gly Thr Ala Tyr Gln Gly Ser	Ser Ser Thr Cys Ile	Leu
620	625	630
Gln Glu Thr Ser Leu		
635		

<210> 6
<211> 535
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2414415CD1

<400> 6			
Met Glu Glu Gly Ala Arg His Arg Asn Asn	Thr Glu Lys Lys His		
1	5	10	15
Pro Gly Gly Glu Ser Asp Ala Ser	Pro Glu Ala Gly Ser Gly		
20	25	30	
Gly Gly Gly Val Ala Leu Lys Lys Glu	Ile Gly Leu Val Ser Ala		
35	40	45	
Cys Gly Ile Ile Val Gly Asn Ile Ile	Gly Ser Gly Ile Phe Val		
50	55	60	
Ser Pro Lys Gly Val Leu Glu Asn Ala	Gly Ser Val Gly Leu Ala		
65	70	75	
Leu Ile Val Trp Ile Val Thr Gly Phe	Ile Thr Val Val Gly Ala		
80	85	90	
Leu Cys Tyr Ala Glu Leu Gly Val Thr	Ile Pro Lys Ser Gly Gly		
95	100	105	
Asp Tyr Ser Tyr Val Lys Asp Ile Phe	Gly Gly Leu Ala Gly Phe		
110	115	120	
Leu Arg Leu Trp Ile Ala Val Leu Val	Ile Tyr Pro Thr Asn Gln		
125	130	135	
Ala Val Ile Ala Leu Thr Phe Ser Asn	Tyr Val Leu Gln Pro Leu		
140	145	150	
Phe Pro Thr Cys Phe Pro Pro Glu Ser	Gly Leu Arg Leu Leu Ala		
155	160	165	

Ala Ile Cys Leu Leu Leu Thr Trp Val Asn Cys Ser Ser Val		
170	175	180
Arg Trp Ala Thr Arg Val Gln Asp Ile Phe Thr Ala Gly Lys Leu		
185	190	195
Leu Ala Leu Ala Leu Ile Ile Met Gly Ile Val Gln Ile Cys		
200	205	210
Lys Gly Glu Tyr Phe Trp Leu Glu Pro Lys Asn Ala Phe Glu Asn		
215	220	225
Phe Gln Glu Pro Asp Ile Gly Leu Val Ala Leu Ala Phe Leu Gln		
230	235	240
Gly Ser Phe Ala Tyr Gly Gly Trp Asn Phe Leu Asn Tyr Val Thr		
245	250	255
Glu Glu Leu Val Asp Pro Tyr Lys Asn Leu Pro Arg Ala Ile Phe		
260	265	270
Ile Ser Ile Pro Leu Val Thr Phe Val Tyr Val Phe Ala Asn Val		
275	280	285
Ala Tyr Val Thr Ala Met Ser Pro Gln Glu Leu Leu Ala Ser Asn		
290	295	300
Ala Val Ala Val Thr Phe Gly Glu Lys Leu Leu Gly Val Met Ala		
305	310	315
Trp Ile Met Pro Ile Ser Val Ala Leu Ser Thr Phe Gly Gly Val		
320	325	330
Asn Gly Ser Leu Phe Thr Ser Ser Arg Leu Phe Phe Ala Gly Ala		
335	340	345
Arg Glu Gly His Leu Pro Ser Val Leu Ala Met Ile His Val Lys		
350	355	360
Arg Cys Thr Pro Ile Pro Ala Leu Leu Phe Thr Cys Ile Ser Thr		
365	370	375
Leu Leu Met Leu Val Thr Ser Asp Met Tyr Thr Leu Ile Asn Tyr		
380	385	390
Val Gly Phe Ile Asn Tyr Leu Phe Tyr Gly Val Thr Val Ala Gly		
395	400	405
Gln Ile Val Leu Arg Trp Lys Lys Pro Asp Ile Pro Arg Pro Ile		
410	415	420
Lys Ile Asn Leu Leu Phe Pro Ile Ile Tyr Leu Leu Phe Trp Ala		
425	430	435
Phe Leu Leu Val Phe Ser Leu Trp Ser Glu Pro Val Val Cys Gly		
440	445	450
Ile Gly Leu Ala Ile Met Leu Thr Gly Val Pro Val Tyr Phe Leu		
455	460	465
Gly Val Tyr Trp Gln His Lys Pro Lys Cys Phe Ser Asp Phe Ile		
470	475	480
Glu Leu Leu Thr Leu Val Ser Gln Lys Met Cys Val Val Val Tyr		
485	490	495
Pro Glu Val Glu Arg Gly Ser Gly Thr Glu Glu Ala Asn Glu Asp		
500	505	510
Met Glu Glu Gln Gln Pro Met Tyr Gln Pro Thr Pro Thr Lys		
515	520	525
Asp Lys Asp Val Ala Gly Gln Pro Gln Pro		
530	535	

<210> 7
<211> 456
<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2466714CD1

<400> 7

Met	Glu	Ala	Ser	Trp	Gly	Ser	Phe	Asn	Ala	Glu	Arg	Gly	Trp	Tyr
1				5					10				15	
Val	Ser	Val	Gln	Gln	Pro	Glu	Glu	Ala	Glu	Glu	Leu	Ser		
					20				25				30	
Pro	Leu	Leu	Ser	Asn	Glu	Leu	His	Arg	Gln	Arg	Ser	Pro	Gly	Val
					35				40				45	
Ser	Phe	Gly	Leu	Ser	Val	Phe	Asn	Leu	Met	Asn	Ala	Ile	Met	Gly
					50				55				60	
Ser	Gly	Ile	Leu	Gly	Leu	Ala	Tyr	Val	Met	Ala	Asn	Thr	Gly	Val
					65				70				75	
Phe	Gly	Phe	Ser	Phe	Leu	Leu	Leu	Thr	Val	Ala	Leu	Leu	Ala	Ser
					80				85				90	
Tyr	Ser	Val	His	Leu	Leu	Ser	Met	Cys	Ile	Gln	Thr	Ala	Val	
					95				100				105	
Thr	Ser	Tyr	Glu	Asp	Leu	Gly	Leu	Phe	Ala	Phe	Gly	Leu	Pro	Gly
					110				115				120	
Lys	Leu	Val	Val	Ala	Gly	Thr	Ile	Ile	Ile	Gln	Asn	Ile	Gly	Ala
					125				130				135	
Met	Ser	Ser	Tyr	Leu	Leu	Ile	Ile	Lys	Thr	Glu	Leu	Pro	Ala	Ala
					140				145				150	
Ile	Ala	Glu	Phe	Leu	Thr	Gly	Asp	Tyr	Asn	Arg	Tyr	Trp	Tyr	Leu
					155				160				165	
Asp	Gly	Gln	Thr	Leu	Leu	Ile	Ile	Ile	Cys	Val	Gly	Ile	Val	Phe
					170				175				180	
Pro	Leu	Ala	Leu	Leu	Pro	Lys	Ile	Gly	Phe	Leu	Gly	Tyr	Thr	Ser
					185				190				195	
Ser	Leu	Ser	Phe	Phe	Met	Met	Phe	Phe	Ala	Leu	Val	Val	Ile	
					200				205				210	
Ile	Lys	Lys	Trp	Ser	Ile	Pro	Cys	Pro	Leu	Thr	Leu	Asn	Tyr	Val
					215				220				225	
Glu	Lys	Gly	Phe	Gln	Ile	Ser	Asn	Val	Thr	Asp	Asp	Cys	Lys	Pro
					230				235				240	
Lys	Leu	Phe	His	Phe	Ser	Lys	Glu	Ser	Ala	Tyr	Ala	Leu	Pro	Thr
					245				250				255	
Met	Ala	Phe	Ser	Phe	Leu	Cys	His	Thr	Ser	Ile	Leu	Pro	Ile	Tyr
					260				265				270	
Cys	Glu	Leu	Gln	Ser	Pro	Ser	Lys	Lys	Arg	Met	Gln	Asn	Val	Thr
					275				280				285	
Asn	Thr	Ala	Ile	Ala	Leu	Ser	Phe	Leu	Ile	Tyr	Phe	Ile	Ser	Ala
					290				295				300	
Leu	Phe	Gly	Tyr	Leu	Thr	Phe	Tyr	Asp	Lys	Val	Glu	Ser	Glu	Leu
					305				310				315	
Leu	Lys	Gly	Tyr	Ser	Lys	Tyr	Leu	Ser	His	Asp	Val	Val	Val	Met
					320				325				330	
Thr	Val	Lys	Leu	Cys	Ile	Leu	Phe	Ala	Val	Leu	Leu	Thr	Val	Pro
					335				340				345	
Leu	Ile	His	Phe	Pro	Ala	Arg	Lys	Ala	Val	Thr	Met	Met	Phe	Phe
					350				355				360	

Ser Asn Phe Pro Phe Ser Trp Ile Arg His Phe Leu Ile Thr Leu		
365	370	375
Ala Leu Asn Ile Ile Ile Val Leu Leu Ala Ile Tyr Val Pro Asp		
380	385	390
Ile Arg Asn Val Phe Gly Val Val Gly Ala Ser Thr Ser Thr Cys		
395	400	405
Leu Ile Phe Ile Phe Pro Gly Leu Phe Tyr Leu Lys Leu Ser Arg		
410	415	420
Glu Asp Phe Leu Ser Trp Lys Lys Leu Gly Ala Phe Val Leu Leu		
425	430	435
Ile Phe Gly Ile Leu Val Gly Asn Phe Ser Leu Ala Leu Ile Ile		
440	445	450
Phe Asp Trp Ile Asn Lys		
455		

<210> 8
<211> 325
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2617942CD1

<400> 8			
Met Phe Ala Asn Leu Lys Tyr Val Ser Leu Gly Ile Leu Val Phe			
1	5	10	15
Gln Thr Thr Ser Leu Val Leu Thr Met Arg Tyr Ser Arg Thr Leu			
20	25	30	
Lys Glu Glu Gly Pro Arg Tyr Leu Ser Ser Thr Ala Val Val Val			
35	40	45	
Ala Glu Leu Leu Lys Ile Met Ala Cys Ile Leu Leu Val Tyr Lys			
50	55	60	
Asp Ser Lys Cys Ser Leu Arg Ala Leu Asn Arg Val Leu His Asp			
65	70	75	
Glu Ile Leu Asn Lys Pro Met Glu Thr Leu Lys Leu Ala Ile Pro			
80	85	90	
Ser Gly Ile Tyr Thr Leu Gln Asn Asn Leu Leu Tyr Val Ala Leu			
95	100	105	
Ser Asn Leu Asp Ala Ala Thr Tyr Gln Val Thr Tyr Gln Leu Lys			
110	115	120	
Ile Leu Thr Thr Ala Leu Phe Ser Val Ser Met Leu Ser Lys Lys			
125	130	135	
Leu Gly Val Tyr Gln Trp Leu Ser Leu Val Ile Leu Met Thr Gly			
140	145	150	
Val Ala Phe Val Gln Trp Pro Ser Asp Ser Gln Leu Asp Ser Lys			
155	160	165	
Glu Leu Ser Ala Gly Ser Gln Phe Val Gly Leu Met Ala Val Leu			
170	175	180	
Thr Ala Cys Phe Ser Ser Gly Phe Ala Gly Val Tyr Phe Glu Lys			
185	190	195	
Ile Leu Lys Glu Thr Lys Gln Ser Val Trp Ile Arg Asn Ile Gln			
200	205	210	
Leu Gly Phe Phe Gly Ser Ile Phe Gly Leu Met Gly Val Tyr Ile			

215	220	225
Tyr Asp Gly Glu	Leu Val Ser Lys Asn	Gly Phe Phe Gln Gly
230	235	Tyr 240
Asn Arg Leu Thr Trp Ile Val Val Val	Leu Gln Ala Leu Gly	Gly
245	250	255
Leu Val Ile Ala Ala Val Ile Lys Tyr	Ala Asp Asn Ile Leu	Lys
260	265	270
Gly Phe Ala Thr Ser Leu Ser Ile Ile	Leu Ser Thr Leu Ile	Ser
275	280	285
Tyr Phe Trp Leu Gln Asp Phe Val Pro	Thr Ser Val Phe Phe	Leu
290	295	300
Gly Ala Ile Leu Val Ile Thr Ala Thr	Phe Leu Tyr Gly	Tyr Asp
305	310	315
Pro Lys Pro Ala Gly Asn Pro Thr Lys Ala		
320	325	

<210> 9
<211> 178
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2945431CD1

<400> 9		
Met Ser Leu Ser Pro Arg Ser Gln Leu Ala Ile Ile Pro Gln Glu		
1	5	10 15
Pro Phe Leu Phe Ser Gly Thr Val Arg	Glu Asn Leu Asp Pro Gln	
20	25	30
Gly Leu His Lys Asp Arg Ala Leu Trp	Gln Ala Leu Lys Gln Cys	
35	40	45
His Leu Ser Glu Val Ile Thr Ser Met	Gly Gly Leu Asp Gly Glu	
50	55	60
Leu Gly Glu Gly Gly Arg Ser Leu Ser	Leu Gly Gln Arg Gln Leu	
65	70	75
Leu Cys Leu Ala Arg Ala Leu Leu Thr	Asp Ala Lys Ile Leu Cys	
80	85	90
Ile Asp Glu Ala Thr Ala Ser Val Asp	Gln Lys Thr Asp Gln Leu	
95	100	105
Leu Gln Gln Thr Ile Cys Lys Arg Phe	Ala Asn Lys Thr Val Leu	
110	115	120
Thr Ile Ala His Arg Leu Asn Thr Ile	Leu Asn Ser Asp Arg Val	
125	130	135
Leu Val Leu Gln Ala Gly Arg Val Val	Glu Leu Asp Ser Pro Ala	
140	145	150
Thr Leu Arg Asn Gln Pro His Ser Leu	Phe Gln Gln Leu Leu Gln	
155	160	165
Ser Ser Gln Gln Gly Val Pro Ala Ser	Leu Gly Gly Pro	
170	175	

<210> 10
<211> 255

<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4074113CD1

<400> 10

Met	Glu	Arg	Glu	Met	Glu	Gly	Arg	Pro	Leu	His	Asn	Glu	Gly	Trp
1				5					10					15
Ile	Asp	Arg	Ser	Arg	Val	Gln	Gln	Lys	Asp	Leu	Pro	Asn	Lys	Cys
					20				25					30
Pro	Gln	Thr	Leu	Trp	Ser	Glu	Gln	Ala	Phe	Pro	Pro	Asn	Pro	Gly
					35				40					45
Gln	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser	Leu
					50				55					60
Ala	Ser	Gly	Leu	Leu	Arg	Leu	Pro	Glu	Ala	Ala	Glu	Gly	Gly	Ile
					65				70					75
Trp	Ile	Asp	Gly	Val	Pro	Ile	Ala	His	Val	Gly	Leu	His	Thr	Leu
					80				85					90
Arg	Ser	Arg	Ile	Ser	Ile	Ile	Pro	Gln	Asp	Pro	Ile	Leu	Phe	Pro
					95				100					105
Gly	Ser	Leu	Arg	Met	Asn	Leu	Asp	Leu	Leu	Gln	Glu	His	Ser	Asp
					110				115					120
Glu	Ala	Ile	Trp	Ala	Ala	Leu	Glu	Thr	Val	Gln	Leu	Lys	Ala	Leu
					125				130					135
Val	Ala	Ser	Leu	Pro	Gly	Gln	Leu	Gln	Tyr	Lys	Cys	Ala	Asp	Arg
					140				145					150
Gly	Glu	Asp	Leu	Ser	Val	Gly	Gln	Lys	Gln	Leu	Leu	Cys	Leu	Ala
					155				160					165
Arg	Ala	Leu	Leu	Arg	Lys	Thr	Gln	Ile	Leu	Ile	Leu	Asp	Glu	Ala
					170				175					180
Thr	Ala	Ala	Val	Asp	Pro	Gly	Thr	Glu	Leu	Gln	Met	Gln	Ala	Met
					185				190					195
Leu	Gly	Ser	Trp	Phe	Ala	Gln	Cys	Thr	Val	Leu	Leu	Ile	Ala	His
					200				205					210
Arg	Leu	Arg	Ser	Val	Met	Asp	Cys	Ala	Arg	Val	Leu	Val	Met	Asp
					215				220					225
Lys	Gly	Gln	Val	Ala	Glu	Ser	Gly	Ser	Pro	Ala	Gln	Leu	Leu	Ala
					230				235					240
Gln	Lys	Gly	Leu	Phe	Tyr	Arg	Leu	Ala	Gln	Glu	Ser	Gly	Leu	Val
					245				250					255

<210> 11
<211> 462
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1413743CD1

<400> 11
Met Ala Gln Val Ser Ile Asn Asn Asp Tyr Ser Glu Trp Asp Leu

1	5	10	15
Ser	Thr Asp Ala Gly Glu Arg Ala Arg	Leu Leu Gln Ser Pro	Cys
	20	25	30
Val	Asp Thr Ala Pro Lys Ser Glu Trp	Glu Ala Ser Pro Gly	Gly
	35	40	45
Leu	Asp Arg Gly Thr Thr Ser Thr	Leu Gly Ala Ile Phe Ile	Val
	50	55	60
Val	Asn Ala Cys Leu Gly Ala Gly	Leu Leu Asn Phe Pro Ala	Ala
	65	70	75
Phe	Ser Thr Ala Gly Gly Val Ala Ala	Gly Ile Ala Leu Gln	Met
	80	85	90
Gly	Met Leu Val Phe Ile Ile Ser Gly	Leu Val Ile Leu Ala	Tyr
	95	100	105
Cys	Ser Gln Ala Ser Asn Glu Arg Thr	Tyr Gln Glu Val Val	Trp
	110	115	120
Ala	Val Cys Gly Lys Leu Thr Gly Val	Leu Cys Glu Val Ala	Ile
	125	130	135
Ala	Val Tyr Thr Phe Gly Thr Cys Ile	Ala Phe Leu Ile Ile	Ile
	140	145	150
Gly	Asp Gln Gln Asp Lys Ile Ile Ala	Val Met Ala Lys Glu	Pro
	155	160	165
Glu	Gly Ala Ser Gly Pro Trp Tyr Thr	Asp Arg Lys Phe Thr	Ile
	170	175	180
Ser	Leu Thr Ala Phe Leu Phe Ile Leu	Pro Leu Ser Ile Pro	Arg
	185	190	195
Glu	Ile Gly Phe Gln Lys Tyr Ala Ser	Phe Leu Ser Val Val	Gly
	200	205	210
Thr	Trp Tyr Val Thr Ala Ile Val Ile	Ile Lys Tyr Ile Trp	Pro
	215	220	225
Asp	Lys Glu Met Thr Pro Gly Asn Ile	Leu Thr Arg Pro Ala	Ser
	230	235	240
Trp	Met Ala Val Phe Asn Ala Met Pro	Thr Ile Cys Phe Gly	Phe
	245	250	255
Gln	Cys His Val Ser Ser Val Pro Val	Phe Asn Ser Met Gln	Gln
	260	265	270
Pro	Glu Val Lys Thr Trp Gly Gly Val	Val Thr Ala Ala Met	Val
	275	280	285
Ile	Ala Leu Ala Val Tyr Met Gly Thr	Gly Ile Cys Gly Phe	Leu
	290	295	300
Thr	Phe Gly Ala Ala Val Asp Pro Asp	Val Leu Leu Ser Tyr	Pro
	305	310	315
Ser	Glu Asp Met Ala Val Ala Val Ala	Arg Ala Phe Ile Ile	Leu
	320	325	330
Ser	Val Leu Thr Ser Tyr Pro Ile Leu	His Phe Cys Gly Arg	Ala
	335	340	345
Val	Val Glu Gly Leu Trp Leu Arg Tyr	Gln Gly Val Pro Val	Glu
	350	355	360
Glu	Asp Val Gly Arg Glu Arg Arg Arg	Val Leu Gln Thr	Leu
	365	370	375
Val	Trp Phe Leu Leu Thr Leu Leu Ala	Leu Phe Ile Pro	Asp
	380	385	390
Ile	Gly Lys Val Ile Ser Val Ile Gly	Gly Leu Ala Ala Cys	Phe
	395	400	405
Ile	Phe Val Phe Pro Gly Leu Cys Leu	Ile Gln Ala Lys Leu	Ser
	410	415	420

Glu	Met	Glu	Glu	Val	Lys	Pro	Ala	Ser	Trp	Trp	Val	Leu	Val	Ser
				425					430					435
Tyr	Gly	Val	Leu	Leu	Val	Thr	Leu	Gly	Ala	Phe	Ile	Phe	Gly	Gln
				440					445					450
Thr	Thr	Ala	Asn	Ala	Ile	Phe	Val	Asp	Leu	Leu	Ala			
				455					460					

<210> 12
<211> 758
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1733477CD1

<400> 12														
Met	Gly	Leu	Ala	Asp	Ala	Ser	Gly	Pro	Arg	Asp	Thr	Gln	Ala	Leu
1		5						10						15
Leu	Ser	Ala	Thr	Gln	Ala	Met	Asp	Leu	Arg	Arg	Arg	Asp	Tyr	His
				20				25						30
Met	Glu	Arg	Pro	Leu	Leu	Asn	Gln	Glu	His	Leu	Glu	Glu	Leu	Gly
				35				40						45
Arg	Trp	Gly	Ser	Ala	Pro	Arg	Thr	His	Gln	Trp	Arg	Thr	Trp	Leu
				50				55						60
Gln	Cys	Ser	Arg	Ala	Arg	Ala	Tyr	Ala	Leu	Leu	Leu	Gln	His	Leu
				65				70						75
Pro	Val	Leu	Val	Trp	Leu	Pro	Arg	Tyr	Pro	Val	Arg	Asp	Trp	Leu
				80				85						90
Leu	Gly	Asp	Leu	Leu	Ser	Gly	Leu	Ser	Val	Ala	Ile	Met	Gln	Leu
				95				100						105
Pro	Gln	Gly	Leu	Ala	Tyr	Ala	Leu	Leu	Ala	Gly	Leu	Pro	Pro	Val
				110				115						120
Phe	Gly	Leu	Tyr	Ser	Ser	Phe	Tyr	Pro	Val	Phe	Ile	Tyr	Phe	Leu
				125				130						135
Phe	Gly	Thr	Ser	Arg	His	Ile	Ser	Val	Gly	Thr	Phe	Ala	Val	Met
				140				145						150
Ser	Val	Met	Val	Gly	Gly	Val	Thr	Glu	Ser	Leu	Ala	Pro	Gln	Ala
				155				160						165
Leu	Asn	Asp	Ser	Met	Ile	Asn	Glu	Thr	Ala	Arg	Asp	Ala	Ala	Arg
				170				175						180
Val	Gln	Val	Ala	Ser	Thr	Leu	Ser	Val	Leu	Val	Gly	Leu	Phe	Gln
				185				190						195
Val	Gly	Leu	Gly	Leu	Ile	His	Phe	Gly	Phe	Val	Val	Thr	Tyr	Leu
				200				205						210
Ser	Glu	Pro	Leu	Val	Arg	Gly	Tyr	Thr	Ala	Ala	Ala	Val	Gln	
				215				220						225
Val	Phe	Val	Ser	Gln	Leu	Lys	Tyr	Val	Phe	Gly	Leu	His	Leu	Ser
				230				235						240
Ser	His	Ser	Gly	Pro	Leu	Ser	Leu	Ile	Tyr	Thr	Val	Leu	Glu	Val
				245				250						255
Cys	Trp	Lys	Leu	Pro	Gln	Ser	Lys	Val	Gly	Thr	Val	Val	Thr	Ala
				260				265						270
Ala	Val	Ala	Gly	Val	Val	Leu	Val	Val	Lys	Leu	Leu	Asn	Asp	

275	280	285
Lys Leu Gln Gln	Leu Pro Met Pro	Ile Pro Gly Glu
290	295	Leu Leu
Thr Leu Ile Gly Ala Thr Gly Ile Ser	Tyr Gly Met Gly	Lys
305	310	315
His Arg Phe Glu Val Asp Val Val Gly	Asn Ile Pro Ala Gly	Leu
320	325	330
Val Pro Pro Val Ala Pro Asn Thr Gln	Leu Phe Ser Lys	Leu Val
335	340	345
Gly Ser Ala Phe Thr Ile Ala Val Val	Gly Phe Ala Ile Ala	Ile
350	355	360
Ser Leu Gly Lys Ile Phe Ala Leu Arg	His Gly Tyr Arg Val	Asp
365	370	375
Ser Asn Gln Glu Leu Val Ala Leu Gly	Leu Ser Asn Leu Ile	Gly
380	385	390
Gly Ile Phe Gln Cys Phe Pro Val Ser	Cys Ser Met Ser Arg	Ser
395	400	405
Leu Val Gln Glu Ser Thr Gly Gly Asn	Ser Gln Val Ala Gly	Ala
410	415	420
Ile Ser Ser Leu Phe Ile Leu Leu Ile	Ile Val Lys Leu Gly	Glu
425	430	435
Leu Phe His Asp Leu Pro Lys Ala Val	Leu Ala Ala Ile Ile	Ile
440	445	450
Val Asn Leu Lys Gly Met Leu Arg Gln	Leu Ser Asp Met Arg	Ser
455	460	465
Leu Trp Lys Ala Asn Arg Ala Asp Leu	Ile Trp Leu Val	Thr
470	475	480
Phe Thr Ala Thr Ile Leu Leu Asn Leu	Asp Leu Gly Leu Val	Val
485	490	495
Ala Val Ile Phe Ser Leu Leu Leu Val	Val Val Arg Thr Gln	Met
500	505	510
Pro His Tyr Ser Val Leu Gly Gln Val	Pro Asp Thr Asp Ile	Tyr
515	520	525
Arg Asp Val Ala Glu Tyr Ser Glu Ala	Lys Glu Val Arg Gly	Val
530	535	540
Lys Val Phe Arg Ser Ser Ala Thr Val	Tyr Phe Ala Asn Ala	Glu
545	550	555
Phe Tyr Ser Asp Ala Leu Lys Gln Arg	Cys Gly Val Asp Val	Asp
560	565	570
Phe Leu Ile Ser Gln Lys Lys Leu	Leu Lys Lys Gln Glu	Gln
575	580	585
Leu Lys Leu Lys Gln Leu Gln Lys Glu	Glu Lys Leu Arg Lys	Gln
590	595	600
Ala Ala Ser Pro Lys Gly Ala Ser Val	Ser Ile Asn Val Asn	Thr
605	610	615
Ser Leu Glu Asp Met Arg Ser Asn Asn	Val Glu Asp Cys Lys	Met
620	625	630
Met Val Ser Ser Gly Asp Lys Met Glu	Asp Ala Thr Ala Asn	Gly
635	640	645
Gln Glu Asp Ser Lys Ala Pro Asp Gly	Ser Thr Leu Lys Ala	Leu
650	655	660
Gly Leu Pro Gln Pro Asp Phe His Ser	Leu Ile Leu Asp Leu	Gly
665	670	675
Ala Leu Ser Phe Val Asp Thr Val Cys	Leu Lys Ser Leu Lys	Asn
680	685	690

Ile Phe His Asp Phe Arg Glu Ile Glu Val Glu Val Tyr Met Ala		
695	700	705
Ala Cys His Ser Pro Val Val Ser Gln Leu Glu Ala Gly His Phe		
710	715	720
Phe Asp Ala Ser Ile Thr Lys Lys His Leu Phe Ala Ser Val His		
725	730	735
Asp Ala Val Thr Phe Ala Leu Gln His Pro Arg Pro Val Pro Asp		
740	745	750
Ser Pro Val Ser Val Thr Arg Leu		
755		

<210> 13

<211> 336

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2641908CD1

<400> 13

Met Met Gly Pro Gly Leu Ala Phe Gly Leu Gly Ser Leu Met Leu		
1	5	10
Arg Leu Tyr Val Asp Ile Asn Gln Met Pro Glu Gly Gly Ile Ser		
20	25	30
Leu Thr Ile Lys Asp Pro Arg Trp Val Gly Ala Trp Trp Leu Gly		
35	40	45
Phe Leu Ile Ala Ala Gly Ala Val Ala Leu Ala Ala Ile Pro Tyr		
50	55	60
Phe Phe Pro Lys Glu Met Pro Lys Glu Lys Arg Glu Leu Gln		
65	70	75
Phe Arg Arg Lys Val Leu Ala Val Thr Asp Ser Pro Ala Arg Lys		
80	85	90
Gly Lys Asp Ser Pro Ser Lys Gln Ser Pro Gly Glu Ser Thr Lys		
95	100	105
Lys Gln Asp Gly Leu Val Gln Ile Ala Pro Asn Leu Thr Val Ile		
110	115	120
Gln Phe Ile Lys Val Phe Pro Arg Val Leu Leu Gln Thr Leu Arg		
125	130	135
His Pro Ile Phe Leu Leu Val Val Leu Ser Gln Val Cys Leu Ser		
140	145	150
Ser Met Ala Ala Gly Met Ala Thr Phe Leu Pro Lys Phe Leu Glu		
155	160	165
Arg Gln Phe Ser Ile Thr Ala Ser Tyr Ala Asn Leu Leu Ile Gly		
170	175	180
Cys Leu Ser Phe Pro Ser Val Ile Val Gly Ile Val Val Gly Gly		
185	190	195
Val Leu Val Lys Arg Leu His Leu Gly Pro Val Gly Cys Gly Ala		
200	205	210
Leu Cys Leu Leu Gly Met Leu Leu Cys Leu Phe Phe Ser Leu Pro		
215	220	225
Leu Phe Phe Ile Gly Cys Ser Ser His Gln Ile Ala Gly Ile Thr		
230	235	240
His Gln Thr Ser Ala His Pro Gly Leu Glu Leu Ser Pro Ser Cys		

245	250	255
Met Glu Ala Cys Ser Cys Pro Leu Asp Gly Phe Asn Pro Val Cys		
260	265	270
Asp Pro Ser Thr Arg Val Glu Tyr Ile Thr Pro Cys His Ala Gly		
275	280	285
Cys Ser Ser Trp Val Val Gln Asp Ala Leu Asp Asn Ser Gln Ser		
290	295	300
Pro Pro Thr Ser His Pro His Ala Gly His Gln His Leu Asn Leu		
305	310	315
Arg Leu Leu Gln Gly Glu Thr Trp Ala Ala Leu Ala Gly Ala Glu		
320	325	330
Glu Pro Val Asp Gly Ala		
335		

<210> 14
<211> 103
<212> PRT
<213> Homo sapiens

<220> /
<221> misc_feature
<223> Incyte ID No: 2656554CD1

<400> 14			
Met Glu Arg Gln Ser Arg Val Met Ser Glu Lys Asp Glu Tyr Gln			
1	5	10	15
Phe Gln His Gln Gly Ala Val Glu Leu Leu Val Phe Asn Phe Leu			
20		25	30
Leu Ile Leu Thr Ile Leu Thr Ile Trp Leu Phe Lys Asn His Arg			
35		40	45
Phe Arg Phe Leu His Glu Thr Gly Gly Ala Met Val Tyr Asp Lys			
50		55	60
Pro Pro Lys Phe Ala Met Ser Arg Glu Gln Met Ser Gln Ser Cys			
65		70	75
Ser His Thr Ala His Asn Ala Ser Leu Leu Thr Asp Ala Gly Pro			
80		85	90
Leu Ser Cys Gly Glu Ser Arg Ala Ser Cys Leu Phe Leu			
95		100	

<210> 15
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2719228CD1

<400> 15			
Met Gln Gly Met Gly Leu Gly Leu Ser Ser Val Phe Ala Leu Cys			
1	5	10	15
Leu Gly His Thr Ser Ser Phe Cys Glu Ser Val Val Phe Ala Ser			
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 Asn Ile Gln Asp Leu Ala Pro Ser Cys Ala Gly Phe Leu Phe Gly
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 Val Ala Asn Thr Ala Gly Ala Leu Ala Gly Val Val Gly Val Cys
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 Leu Gly Gly Tyr Leu Met Glu Thr Thr Gly Ser Trp Thr Cys Leu
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 Phe Asn Leu Val Ala Ile Ile Ser Asn Leu Gly Leu Cys Thr Phe
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 Asp Phe Ala Tyr Ser Asp Ser Arg Val Gly Phe Val Arg Gly Tyr
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 Ser Arg Arg Phe Trp Gln Gly Asp Thr Phe His Arg Gly Ser Asp
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 Lys Met Pro Gly Arg Val Val Thr Leu Leu Glu Asp His Glu Gly
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 Cys Thr Trp Gly Val Ala Tyr Gln Val Gln Gly Glu Gln Val Ser
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 Lys Ala Leu Lys Tyr Leu Asn Val Arg Glu Ala Val Leu Gly Gly
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 Tyr Asp Thr Lys Glu Val Thr Phe Tyr Pro Gln Asp Ala Pro Asp
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 Gln Pro Leu Lys Ala Leu Ala Tyr Val Ala Thr Pro Gln Asn Pro
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 Gly Tyr Leu Gly Pro Ala Pro Glu Glu Ala Ile Ala Thr Gln Ile
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<210> 30

<211> 1481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2641908CB1

<400> 30

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gggtatatt taagctaaa ggaatagaaa ttagatgatgc agcaactcgc ccctctaccc 180
cgggatcctg tttcagtga ccatgtggg gcaggcctg gccttggc tggcagcct 240
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ctctccctct aagcagagcc ctggggagtc cacgaagaag caggatggcc tagtccagat 540
tgcaccaaacc ctgactgtga tccagttcat taaagtcttc cccagggcgc tgctgcagac 600
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cagttcttg gtctgtaaaa taggggagat attattaagt gcctactaca gaggcggat 1440
gtgctgaata aatgcttac ctggatgaaa aaaaaaaaaa a 1481

<210> 31

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2656554CB1

<400> 31

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gagacagtca agggttatgt cagaaaagga tgagtatca g ttcaacatc agggagcggt 180
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atccctctta tatcaactaa tttcaagaag aaaacttgca gaaactaacc ccaccctct 600
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<210> 32

<211> 1635
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2719228CB1

<400> 32

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ccctgttaggt tacagagcca tcacggtgcg gaagtcatg cagggcatgg gccttggct 180
ctccagcgtc tttgtctgt gcctgggcca cacccctcagc ttctgtgagt ctgtgggtt 240
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ggacttggcc cccgtcctgcg ccggctttct gtttgggtgt gccaacacag ccggggcctt 360
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tggacaggct cagagggtgg acctgagctc taccatcag gacctctagc tcccaacccc 540
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gacttggtca ctccatgtca gacacacgag cagagaggaa cacaaccac tgtggaccc 660
gaagctcctt aagaagagtc cacaacacgt ggtgggaggg tgggggtggc ctgggtccag 720
accaggctcg ctgcctctg gcctcaggat tccccacctg ccagcgggct cggccctgtc 780
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aaagaaaaaa aaaaaa 1635

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<210> 33
<211> 1447
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3657824CB1

<400> 33

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gccccgaaca ccccgccccac ctgcgcgtcc cctacgcgtt ccgcgtcaggat ccccccggaaac 180
gacggcgacc ctcaagcgct gtggattttc gggtaacggct ccctgggtgtg gaggccggac 240
ttgcctaca gcgacagccg tgggtggctc gtgcgcggct acagccggcc tttctggcag 300
ggagacacccct tccatcgggg cagcgacaag atgcctggcc gtgtgggtac gctccttgaa 360

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 cagctctgtg ggcctcaggc gcaggacgag cacctggcag ccatcgatggc cgctgtggc 720
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 aggctggatg agggatagta gggcatgagg agaaggagcc ctgtaaggac tgaggccccg 1260
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 ctgctgagcc tggcctggc ctcttaccca cttgggtgtt ttcttgcctc tctgtctgtc 1380
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 ctcatca 1447

<210> 34
 <211> 657
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 5378485CB1

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 tcgcctccccc ggtcatcatc ttaccacgt tctggggcct cgtcgccatc gcccggccct 180
 ggttcgtgcc gaaggagacc aaccgcggag tgatcatcac catgctggtc gccaccggcg 240
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 cccgaccctgg tggccagctc tcggaatgac tggcttccca ctgtccctga caacccttc 420
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<210> 35
 <211> 646
 <212> PRT
 <213> Mus musculus

<220>
 <221> misc_feature
 <223> GenBank ID No: g2612939

<400> 35
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Gly		Pro	Trp	
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			Trp	
			Ser	
			Ala	
			Ala	
	20	25	30	
Ala	Phe	Cys	Val	
			Tyr	
			Val	
			Gly	
			Gly	
			Gly	
			Trp	
			Arg	
			Phe	
			Leu	
			Arg	
		35	40	45
Ile	Val	Cys	Lys	
			Thr	
			Ala	
			Arg	
			Arg	
			Asp	
			Leu	
			Phe	
			Gly	
			Leu	
			Ser	
			Val	
		50	55	60
Leu	Ile	Arg	Val	
			Arg	
			Leu	
			Glu	
			Leu	
			Arg	
			Arg	
			His	
			Arg	
			Arg	
			Ala	
			Gly	
		65	70	75
Asp	Thr	Ile	Pro	
			Cys	
			Ile	
			Phe	
			Gln	
			Ala	
			Val	
			Ala	
			Arg	
			Arg	
			Gln	
			Pro	
	80	85	90	
Glu	Arg	Leu	Ala	
			Leu	
			Val	
			Asp	
			Ala	
			Ser	
			Ser	
			Gly	
			Ile	
			Cys	
			Trp	
		95	100	105
Phe	Ala	Gln	Leu	
			Asp	
			Thr	
			Tyr	
			Ser	
			Asn	
			Ala	
			Val	
			Ala	
			Asn	
			Leu	
			Phe	
	110	115	120	
Arg	Gln	Leu	Gly	
			Phe	
			Ala	
			Pro	
			Gly	
			Asp	
			Val	
			Val	
			Ala	
			Val	
		125	130	135
Glu	Gly	Arg	Pro	
			Glu	
			Phe	
			Val	
			Gly	
			Leu	
			Trp	
			Leu	
			Gly	
			Leu	
			Ala	
			Lys	
	140	145	150	
Ala	Gly	Val	Val	
			Ala	
			Ala	
			Leu	
			Leu	
			Asn	
			Val	
			Asn	
			Leu	
			Arg	
			Arg	
	155	160	165	
Pro	Leu	Ala	Phe	
			Cys	
			Leu	
			Gly	
			Thr	
			Ser	
			Ala	
			Ala	
			Lys	
			Ala	
	170	175	180	
Tyr	Gly	Gly	Glu	
			Met	
			Ala	
			Ala	
			Ala	
			Val	
			Ala	
			Glu	
	185	190	195	
Leu	Gly	Lys	Ser	
			Leu	
			Leu	
			Lys	
			Phe	
			Cys	
			Ser	
			Gly	
			Asp	
			Leu	
			Gly	
	200	205	210	
Glu	Ser	Ile	Leu	
			Pro	
			Asp	
			Thr	
			Gln	
			Leu	
			Leu	
			Asp	
			Pro	
			Met	
			Leu	
	215	220	225	
Glu	Ala	Pro	Thr	
			Thr	
			Pro	
			Leu	
			Gln	
			Ala	
			Pro	
			Gly	
	230	235	240	
Asp	Asp	Arg	Leu	
			Phe	
			Tyr	
			Ile	
			Tyr	
			Thr	
			Ser	
			Gly	
	245	250	255	
Pro	Lys	Ala	Ala	
			Ile	
			Val	
			Val	
			His	
			Ser	
			Arg	
			Tyr	
			Tyr	
			Arg	
	260	265	270	
Ala	Phe	Gly	His	
			His	
			Ser	
			Tyr	
			Ser	
			Met	
			Arg	
			Ala	
			Ala	
			Asp	
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Tyr	Asp	Cys	Leu	
			Pro	
			Leu	
			Tyr	
			His	
			Ser	
			Ala	
			Gly	
	290	295	300	
Val	Gly	Gln	Cys	
			Val	
			Ile	
			Tyr	
			Gly	
			Leu	
	305	310	315	
Lys	Phe	Ser	Ala	
			Ser	
			Arg	
			Phe	
			Trp	
			Asp	
			Asp	
			Cys	
	320	325	330	
Cys	Thr	Val	Val	
			Gln	
			Tyr	
			Ile	
			Gly	
	335	340	345	
Arg	Gln	Pro	Val	
			Arg	
			Asp	
			Val	
			Glu	
			Gln	
	350	355	360	
Ala	Val	Gly	Asn	
			Gly	
			Leu	
			Arg	
			Pro	
			Ala	
	365	370	375	
Gln	Arg	Phe	Gly	
			Val	
			Pro	
			Gln	
			Ile	
			Gly	
	380	385	390	
Glu	Cys	Asn	Cys	
			Ser	
			Ile	
			Ala	
			Asn	
			Met	
			Asp	
			Gly	
	395	400	405	
Cys	Gly	Phe	Asn	
			Ser	
			Arg	
			Ile	
			Leu	
			Thr	
			His	
			Val	
			Tyr	
			Pro	
	410	415	420	

Leu Val Lys Val Asn Glu Asp Thr Met Glu Pro Leu Arg Asp Ser
 425 430 435
 Glu Gly Leu Cys Ile Pro Cys Gln Pro Gly Glu Pro Gly Leu Leu
 440 445 450
 Val Gly Gln Ile Asn Gln Gln Asp Pro Leu Arg Arg Phe Asp Gly
 455 460 465
 Tyr Val Ser Asp Ser Ala Thr Asn Lys Lys Ile Ala His Ser Val
 470 475 480
 Phe Arg Lys Gly Asp Ser Ala Tyr Leu Ser Gly Asp Val Leu Val
 485 490 495
 Met Asp Glu Leu Gly Tyr Met Tyr Phe Arg Asp Arg Ser Gly Asp
 500 505 510
 Thr Phe Arg Trp Arg Gly Glu Asn Val Ser Thr Thr Glu Val Glu
 515 520 525
 Ala Val Leu Ser Arg Leu Leu Gly Gln Thr Asp Val Ala Val Tyr
 530 535 540
 Gly Val Ala Val Pro Gly Val Glu Gly Lys Ala Gly Met Ala Ala
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 Ile Ala Asp Pro His Ser Gln Leu Asp Pro Asn Ser Met Tyr Gln
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 Glu Leu Gln Lys Val Leu Ala Ser Tyr Ala Arg Pro Ile Phe Leu
 575 580 585
 Arg Leu Leu Pro Gln Val Asp Thr Thr Gly Thr Phe Lys Ile Gln
 590 595 600
 Lys Thr Arg Leu Gln Arg Glu Gly Phe Asp Pro Arg Gln Thr Ser
 605 610 615
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 Leu

<210> 36
 <211> 691
 <212> PRT
 <213> Schistosoma mansoni

<220>
 <221> misc_feature
 <223> GenBank ID No: g425474

<400> 36

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				20				25					30	
Thr	His	Ile	Lys	Pro	Leu	Lys	Cys	Ser	Ser	Ser	Leu	Arg	Leu	Thr
				35				40					45	
Val	Gly	Thr	Gly	Leu	Phe	Ile	Ala	Leu	His	Ser	Lys	Ile	Ser	Pro
				50				55					60	
Glu	Ser	Arg	Ile	Gln	Thr	Val	Gln	Cys	Glu	Val	Asp	Ser	Tyr	Gln
				65				70					75	
Thr	Asp	Gln	Ile	Thr	Phe	Ala	Lys	Ser	Gly	Gly	Ile	Pro	Arg	Tyr
				80				85					90	

Ile Gly Val Leu Ile Leu Pro Asp Cys Val Tyr Leu Phe Gly Ala
 95 100 105
 Ile Leu Gly Ala Phe Val Ala Ala Val Met Asn Val Tyr Ile Pro
 110 115 120
 Leu Tyr Leu Gly Asp Phe Val Ser Ser Leu Ser Arg Cys Val Val
 125 130 135
 Thr His Glu Gly Phe Val Ser Ala Val Tyr Val Pro Thr Leu Arg
 140 145 150
 Leu Cys Ser Ser Tyr Leu Leu Gln Ser Leu Ser Thr Phe Leu Tyr
 155 160 165
 Ile Gly Leu Leu Gly Ser Val Gly Glu Arg Met Ala Arg Arg Met
 170 175 180
 Arg Ile Gln Leu Phe Arg Lys Leu Val Tyr Gln Asp Val Ala Tyr
 185 190 195
 Phe Asp Val His Ser Ser Gly Lys Leu Val Glu Ile Ile Gly Ser
 200 205 210
 Asp Val Gln Asn Phe Lys Ser Ser Phe Lys Gln Cys Ile Ser Gln
 215 220 225
 Gly Leu Arg Asn Gly Ile Gln Val Val Gly Ser Val Phe Ala Leu
 230 235 240
 Leu Ser Ile Ser Pro Thr Leu Thr Ala Ala Leu Ile Gly Cys Leu
 245 250 255
 Pro Cys Val Phe Leu Ile Gly Ser Leu Met Gly Thr Glu Leu Arg
 260 265 270
 His Ile Ser Arg Glu Val Gln Ser Gln Asn Ser Leu Phe Ala Ser
 275 280 285
 Leu Ile Asp Glu Ala Phe Ser His Ile Arg Thr Val Lys Ser Leu
 290 295 300
 Ala Met Glu Asp Phe Leu Ile Asn Lys Ile Asn Tyr Asn Val Asp
 305 310 315
 Lys Ala Lys Met Leu Ser Glu Lys Leu Ser Phe Gly Ile Gly Ser
 320 325 330
 Phe Gln Gly Leu Ser Asn Leu Thr Leu Asn Gly Val Val Leu Gly
 335 340 345
 Val Leu Tyr Val Gly Gly His Leu Met Ser Arg Gly Glu Leu Asp
 350 355 360
 Ala Gly His Leu Met Ser Phe Leu Ala Thr Thr Gln Thr Leu Gln
 365 370 375
 Arg Ser Leu Thr Gln Leu Ser Leu Leu Tyr Gly Gln Val Val Arg
 380 385 390
 Gly Tyr Thr Ala Leu Lys Arg Ile His Asp Ile Leu Ala Leu Pro
 395 400 405
 Ser Gly Ile Gly Ser Ile Pro Ser Ser Ser Ser Leu Val Val
 410 415 420
 Ser Lys Gln His Val Asn Asn Ile Lys Glu Leu Pro Ser Ser
 425 430 435
 Ile Tyr Ser Ala Pro Ser Ile Glu Phe Ser Asp Val Lys Phe Ala
 440 445 450
 Tyr Pro Asn Arg Pro Glu Thr Ile Val Leu Asn Glu Leu Ser Met
 455 460 465
 Phe Leu Pro Gly Gly Lys Val Ile Ala Leu Val Gly Gln Ser Gly
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 Ala Gly Lys Ser Thr Val Val Ser Leu Leu Glu Arg Phe Tyr Asp
 485 490 495
 Pro Ile Ser Gly Glu Ile Leu Leu Asn Gly Asp Lys Leu Thr Asn

500	505	510
Phe Asn Val Asn Tyr Leu Arg Ser Lys	Leu Ile Gly Tyr Ile Ser	
515	520	525
Gln Glu Pro Gln Ile Phe Asn Ala Ser	Ile Arg Glu Asn Ile Arg	
530	535	540
Phe Gly Arg Phe Asp Ala Thr Asp Glu	Glu Val Glu Glu Ala Ala	
545	550	555
Lys Leu Ala Tyr Ala His Asp Phe Ile	Ser Asn Asp Leu Pro Tyr	
560	565	570
Gly Tyr Asp Thr Leu Val Gly Gln Gly	Thr Gly Thr Ile Ala Gly	
575	580	585
Leu Ser Gly Gly Gln Arg Gln Arg Ile	Ala Ile Ala Arg Ile Leu	
590	595	600
Leu Lys Asn Ala Pro Ile Leu Leu Met	Asp Glu Ala Thr Ser Ala	
605	610	615
Leu Asp Thr Glu Ser Glu Ala Lys Val	Gln Asn Ala Leu Asn Asn	
620	625	630
Ala Met Lys Gly Arg Thr Val Leu Ile	Ile Ala His Arg Leu Ser	
635	640	645
Thr Val Arg Lys Ala Asp Leu Ile Leu	Val Met Ser Lys Gly Gln	
650	655	660
Ile Val Glu Lys Gly Thr His Ser Glu	Leu Met Ala Asn His Gly	
665	670	675
Tyr Tyr Tyr Asn Leu Val Gln Arg Gln	Glu Gly Cys Asp Val Phe	
680	685	690

Asp

<210> 37
<211> 634
<212> PRT
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> GenBank ID No: g3015617

1	5	10	15
Thr Asn Arg Val Ile Ser Thr Phe Ser Val Val Asp Tyr Val Val			
20	25	30	
Phe Gly Leu Leu Val Leu Ser Leu Val Ile Gly Leu Tyr His			
35	40	45	
Ala Cys Arg Gly Trp Gly Arg His Thr Val Gly Glu Leu Leu Met			
50	55	60	
Ala Asp Arg Lys Met Gly Cys Leu Pro Val Ala Leu Ser Leu Leu			
65	70	75	
Ala Thr Phe Gln Ser Ala Val Ala Ile Leu Gly Gly Pro Ala Glu			
80	85	90	
Ile Tyr Arg Phe Gly Thr Gln Tyr Trp Phe Leu Gly Cys Ser Tyr			
95	100	105	
Phe Leu Gly Leu Leu Ile Pro Ala His Ile Phe Ile Pro Val Phe			
110	115	120	
Tyr Arg Leu His Leu Thr Ser Ala Tyr Glu Tyr Leu Glu Leu Arg			

125	130	135
Phe Asn Lys Ala Val Arg Ile Cys Gly Thr Val Thr Phe Ile Phe		
140	145	150
Gln Met Val Val Tyr Met Gly Val Ala Leu Tyr Ala Pro Ser Leu		
155	160	165
Ala Leu Asn Ala Val Thr Gly Phe Asp Leu Trp Leu Ser Val Leu		
170	175	180
Ala Leu Gly Ile Val Cys Asn Ile Tyr Thr Ala Leu Gly Gly Leu		
185	190	195
Lys Ala Val Ile Trp Thr Asp Val Phe Gln Thr Leu Ile Met Phe		
200	205	210
Leu Gly Gln Leu Val Val Ile Ile Val Gly Ala Ala Lys Val Gly		
215	220	225
Gly Leu Gly His Val Trp Ala Val Ala Ser Gln His Gly Leu Ile		
230	235	240
Ser Gly Ile Glu Leu Asp Pro Asp Pro Phe Val Arg His Thr Phe		
245	250	255
Trp Thr Leu Ala Phe Gly Gly Val Phe Met Met Leu Ser Leu Tyr		
260	265	270
Gly Val Asn Gln Ala Gln Val Gln Arg Tyr Leu Ser Ser His Ser		
275	280	285
Glu Lys Ala Ala Val Leu Ser Cys Tyr Ala Val Phe Pro Cys Gln		
290	295	300
Gln Val Ala Leu Cys Met Ser Cys Leu Ile Gly Leu Val Met Phe		
305	310	315
Ala Tyr Tyr Lys Lys Tyr Ser Met Ser Pro Gln Gln Glu Gln Ala		
320	325	330
Ala Pro Asp Gln Leu Val Leu Tyr Phe Val Met Asp Leu Leu Lys		
335	340	345
Asp Met Pro Gly Leu Pro Gly Leu Phe Val Ala Cys Leu Phe Ser		
350	355	360
Gly Ser Leu Ser Thr Ile Ser Ser Ala Phe Asn Ser Leu Ala Thr		
365	370	375
Val Thr Met Glu Asp Leu Ile Gln Pro Trp Phe Pro Gln Leu Thr		
380	385	390
Glu Thr Arg Ala Ile Met Leu Ser Arg Ser Leu Ala Phe Ala Tyr		
395	400	405
Gly Leu Val Cys Leu Gly Met Ala Tyr Val Ser Ser His Leu Gly		
410	415	420
Ser Val Leu Gln Ala Ala Leu Ser Ile Phe Gly Met Val Gly Gly		
425	430	435
Pro Leu Leu Gly Leu Phe Cys Leu Gly Met Phe Phe Pro Cys Ala		
440	445	450
Asn Pro Leu Gly Ala Ile Val Gly Leu Leu Thr Gly Leu Thr Met		
455	460	465
Ala Phe Trp Ile Gly Ile Gly Ser Ile Val Ser Arg Met Ser Ser		
470	475	480
Ala Ala Ala Ser Pro Pro Leu Asn Gly Ser Ser Ser Phe Leu Pro		
485	490	495
Ser Asn Leu Thr Val Ala Thr Val Thr Leu Met Pro Ser Thr		
500	505	510
Leu Ser Lys Pro Thr Gly Leu Gln Gln Phe Tyr Ser Leu Ser Tyr		
515	520	525
Leu Trp Tyr Ser Ala His Asn Ser Thr Thr Val Ile Ala Val Gly		
530	535	540

Leu Ile Val Ser Leu Leu Thr Gly Gly Met Arg Gly Arg Ser Leu		
545	550	555
Asn Pro Gly Thr Ile Tyr Pro Val Leu Pro Lys Leu Leu Ala Leu		
560	565	570
Leu Pro Leu Ser Cys Gln Lys Arg Leu Cys Trp Arg Ser His Asn		
575	580	585
Gln Asp Ile Pro Val Val Thr Asn Leu Phe Pro Glu Lys Met Gly		
590	595	600
Asn Gly Ala Leu Gln Asp Ser Arg Asp Lys Glu Arg Met Ala Glu		
605	610	615
Asp Gly Leu Val His Gln Pro Cys Ser Pro Thr Tyr Ile Val Gln		
620	625	630
Glu Thr Ser Leu		

<210> 38
<211> 507
<212> PRT
<213> Homo sapiens

<220>		
<221> misc_feature		
<223> GenBank ID No: g3639058		
<400> 38		
Met Ala Gly Ala Gly Pro Lys Arg Arg Ala Leu Ala Ala Pro Ala		
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Ala Glu Glu Lys Glu Glu Ala Arg Glu Lys Met Leu Ala Ala Lys		
20	25	30
Ser Ala Asp Gly Ser Ala Pro Ala Gly Glu Gly Glu Gly Val Thr		
35	40	45
Leu Gln Arg Asn Ile Thr Leu Leu Asn Gly Val Ala Ile Ile Val		
50	55	60
Gly Thr Ile Ile Gly Ser Gly Ile Phe Val Thr Pro Thr Gly Val		
65	70	75
Leu Lys Glu Ala Gly Ser Pro Gly Leu Ala Leu Val Val Trp Ala		
80	85	90
Ala Cys Gly Val Phe Ser Ile Val Gly Ala Leu Cys Tyr Ala Glu		
95	100	105
Leu Gly Thr Thr Ile Ser Lys Ser Gly Gly Asp Tyr Ala Tyr Met		
110	115	120
Leu Glu Val Tyr Gly Ser Leu Pro Ala Phe Leu Lys Leu Trp Ile		
125	130	135
Glu Leu Leu Ile Ile Arg Pro Ser Ser Gln Tyr Ile Val Ala Leu		
140	145	150
Val Phe Ala Thr Tyr Leu Leu Lys Pro Leu Phe Pro Thr Cys Pro		
155	160	165
Val Pro Glu Glu Ala Ala Lys Leu Val Ala Cys Leu Cys Val Leu		
170	175	180
Leu Leu Thr Ala Val Asn Cys Tyr Ser Val Lys Ala Ala Thr Arg		
185	190	195
Val Gln Asp Ala Phe Ala Ala Lys Leu Leu Ala Leu Ala Leu		
200	205	210
Ile Ile Leu Leu Gly Phe Val Gln Ile Gly Lys Gly Asp Val Ser		

215	220	225
Asn Leu Asp Pro	Lys Phe Ser Phe Glu	Gly Thr Lys Leu Asp Val
230	235	240
Gly Asn Ile Val	Leu Ala Leu Tyr Ser	Gly Leu Phe Ala Tyr Gly
245	250	255
Gly Trp Asn Tyr	Leu Asn Phe Val Thr	Glu Glu Met Ile Asn Pro
260	265	270
Tyr Arg Asn Leu	Pro Leu Ala Ile Ile	Ile Ser Leu Pro Ile Val
275	280	285
Thr Leu Val Tyr	Val Leu Thr Asn Leu	Ala Tyr Phe Thr Thr Leu
290	295	300
Ser Thr Glu Gln	Met Leu Ser Ser Glu	Ala Val Ala Val Asp Phe
305	310	315
Gly Asn Tyr His	Leu Gly Val Met Ser	Trp Ile Ile Pro Val Phe
320	325	330
Val Gly Leu Ser	Cys Phe Gly Ser Val	Asn Gly Ser Leu Phe Thr
335	340	345
Ser Ser Arg Leu	Phe Phe Val Gly Ser	Arg Glu Gly His Leu Pro
350	355	360
Ser Ile Leu Ser	Met Ile His Pro Gln	Leu Leu Thr Pro Val Pro
365	370	375
Ser Leu Val Phe	Thr Cys Val Met Thr	Leu Leu Tyr Ala Phe Ser
380	385	390
Lys Asp Ile Phe	Ser Val Ile Asn Phe	Phe Ser Phe Phe Asn Trp
395	400	405
Leu Cys Val Ala	Leu Ala Ile Ile Gly	Met Ile Trp Leu Arg His
410	415	420
Arg Lys Pro Glu	Leu Glu Arg Pro Ile	Lys Val Asn Leu Ala Leu
425	430	435
Pro Val Phe Phe	Ile Leu Ala Cys Leu	Phe Leu Ile Ala Val Ser
440	445	450
Phe Trp Lys Thr	Pro Val Glu Cys Gly	Ile Gly Phe Thr Ile Ile
455	460	465
Leu Ser Gly Leu	Pro Val Tyr Phe Phe	Gly Val Trp Trp Lys Asn
470	475	480
Lys Pro Lys Trp	Leu Leu Gln Gly Ile	Phe Ser Thr Thr Val Leu
485	490	495
Cys Gln Lys Leu	Met Gln Val Val Pro	Gln Glu Thr
500	505	

<210> 39
<211> 504
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> GenBank ID No: g1840045

<400> 39
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1 5 10 15
Gly Lys His Ser Glu Gly Leu Leu Pro Val Ile Thr Pro Met Ala

20	25	30
Gly Asn Gln Arg Val Glu Asp Pro Ala Arg Ser Cys Met Glu Gly		
35	40	45
Lys Ser Phe Leu Gln Lys Ser Pro Ser Lys Glu Pro His Phe Thr		
50	55	60
Asp Phe Glu Gly Lys Thr Ser Phe Gly Met Ser Val Phe Asn Leu		
65	70	75
Ser Asn Ala Ile Met Gly Ser Gly Ile Leu Gly Leu Ala Tyr Ala		
80	85	90
Met Ala Asn Thr Gly Ile Ile Leu Phe Leu Phe Leu Leu Thr Ala		
95	100	105
Val Ala Leu Leu Ser Ser Tyr Ser Ile His Leu Leu Leu Lys Ser		
110	115	120
Ser Gly Val Val Gly Ile Arg Ala Tyr Glu Gln Leu Gly Tyr Arg		
125	130	135
Ala Phe Gly Thr Pro Gly Lys Leu Ala Ala Ala Leu Ala Ile Thr		
140	145	150
Leu Gln Asn Ile Gly Ala Met Ser Ser Tyr Leu Tyr Ile Ile Lys		
155	160	165
Ser Glu Leu Pro Leu Val Ile Gln Thr Phe Leu Asn Leu Glu Glu		
170	175	180
Lys Thr Ser Asp Trp Tyr Met Asn Gly Asn Tyr Leu Val Ile Leu		
185	190	195
Val Ser Val Thr Ile Ile Leu Pro Leu Ala Leu Met Arg Gln Leu		
200	205	210
Gly Tyr Leu Gly Tyr Ser Ser Gly Phe Ser Leu Ser Cys Met Val		
215	220	225
Phe Phe Leu Ile Ala Val Ile Tyr Lys Lys Phe His Val Pro Cys		
230	235	240
Pro Leu Pro Pro Asn Phe Asn Asn Thr Thr Gly Asn Phe Ser His		
245	250	255
Val Glu Ile Val Lys Glu Lys Val Gln Leu Gln Val Glu Pro Glu		
260	265	270
Ala Ser Ala Phe Cys Thr Pro Ser Tyr Phe Thr Leu Asn Ser Gln		
275	280	285
Thr Ala Tyr Thr Ile Pro Ile Met Ala Phe Ala Phe Val Cys His		
290	295	300
Pro Glu Val Leu Pro Ile Tyr Thr Glu Leu Lys Asp Pro Ser Lys		
305	310	315
Lys Lys Met Gln His Ile Ser Asn Leu Ser Ile Ala Val Met Tyr		
320	325	330
Ile Met Tyr Phe Leu Ala Ala Leu Phe Gly Tyr Leu Thr Phe Tyr		
335	340	345
Asn Gly Val Glu Ser Glu Leu Leu His Thr Tyr Ser Lys Val Asp		
350	355	360
Pro Phe Asp Val Leu Ile Leu Cys Val Arg Val Ala Val Leu Thr		
365	370	375
Ala Val Thr Leu Thr Val Pro Ile Val Leu Phe Pro Val Arg Arg		
380	385	390
Ala Ile Gln Gln Met Leu Phe Pro Asn Gln Glu Phe Ser Trp Leu		
395	400	405
Arg His Val Leu Ile Ala Val Gly Leu Leu Thr Cys Ile Asn Leu		
410	415	420
Leu Val Ile Phe Ala Pro Asn Ile Leu Gly Ile Phe Gly Val Ile		
425	430	435

Gly Ala Thr Ser Ala Pro Phe Leu Ile Phe Ile Phe Pro Ala Ile
 440 445 450
 Phe Tyr Phe Arg Ile Met Pro Thr Glu Lys Glu Pro Ala Arg Ser
 455 460 465
 Thr Pro Lys Ile Leu Ala Leu Cys Phe Ala Met Leu Gly Phe Leu
 470 475 480
 Leu Met Thr Met Ser Leu Ser Phe Ile Ile Ile Asp Trp Ala Ser
 485 490 495
 Gly Thr Ser Arg His Gly Gly Asn His
 500

<210> 40

<211> 393

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g1526438

<400> 40

Met Ala Ala Val Gly Ala Gly Ser Thr Ala Ala Pro Gly Pro
 1 5 10 15
 Gly Ala Val Ser Ala Gly Ala Leu Glu Pro Gly Thr Ala Ser Ala
 20 25 30
 Ala His Arg Arg Leu Lys Tyr Ile Ser Leu Ala Val Leu Val Val
 35 40 45
 Gln Asn Ala Ser Leu Ile Leu Ser Ile Arg Tyr Ala Arg Thr Leu
 50 55 60
 Pro Gly Asp Arg Phe Phe Ala Thr Thr Ala Val Val Met Ala Glu
 65 70 75
 Val Leu Lys Gly Leu Thr Cys Leu Leu Leu Leu Phe Ala Gln Lys
 80 85 90
 Arg Gly Asn Val Lys His Leu Val Leu Phe Leu His Glu Ala Val
 95 100 105
 Leu Val Gln Tyr Val Asp Thr Leu Lys Leu Ala Val Pro Ser Leu
 110 115 120
 Ile Tyr Thr Leu Gln Asn Asn Leu Gln Tyr Val Ala Ile Ser Asn
 125 130 135
 Leu Pro Ala Ala Thr Phe Gln Val Thr Tyr Gln Leu Lys Ile Leu
 140 145 150
 Thr Thr Ala Leu Phe Ser Val Leu Met Leu Asn Arg Ser Leu Ser
 155 160 165
 Arg Leu Gln Trp Ala Ser Leu Leu Leu Phe Thr Gly Val Ala
 170 175 180
 Ile Val Gln Ala Gln Gln Ala Gly Gly Gly Pro Arg Pro Leu
 185 190 195
 Asp Gln Asn Pro Gly Ala Gly Leu Ala Ala Val Val Ala Ser Cys
 200 205 210
 Leu Ser Ser Gly Phe Ala Gly Val Tyr Phe Glu Lys Ile Leu Lys
 215 220 225
 Gly Ser Ser Gly Ser Val Trp Leu Arg Asn Leu Gln Leu Gly Leu
 230 235 240

Phe Gly Thr Ala Leu Gly Leu Val Gly Leu Trp Trp Ala Glu Gly
 245 250 255
 Thr Ala Val Ala Thr Arg Gly Phe Phe Phe Gly Tyr Thr Pro Ala
 260 265 270
 Val Trp Gly Val Val Leu Asn Gln Ala Phe Gly Gly Leu Leu Val
 275 280 285
 Ala Val Val Val Lys Tyr Ala Asp Asn Ile Leu Lys Gly Phe Ala
 290 295 300
 Thr Ser Leu Ser Ile Val Leu Ser Thr Val Ala Ser Ile Arg Leu
 305 310 315
 Phe Gly Phe His Val Asp Pro Leu Phe Ala Leu Gly Ala Gly Leu
 320 325 330
 Val Ile Gly Ala Val Tyr Leu Tyr Ser Leu Pro Arg Gly Ala Ala
 335 340 345
 Lys Ala Ile Ala Ser Ala Ser Ala Ser Ala Ser Gly Pro Cys Val
 350 355 360
 His Gln Gln Pro Pro Gly Gln Pro Pro Pro Pro Gln Leu Ser Ser
 365 370 375
 His Arg Gly Asp Leu Ile Thr Glu Pro Phe Leu Pro Lys Ser Val
 380 385 390
 Leu Val Lys

<210> 41
 <211> 893
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> GenBank ID No: g3335175

<400> 41

His	Val	Gln	Asp	Phe	Thr	Ala	Phe	Trp	Asp	Lys	Ala	Ser	Glu	Thr
1														15
Pro	Thr	Leu	Gln	Gly	Leu	Ser	Phe	Thr	Val	Arg	Pro	Gly	Glu	Leu
														30
Leu	Ala	Val	Val	Gly	Pro	Val	Gly	Ala	Gly	Lys	Ser	Ser	Leu	Leu
														45
Ser	Ala	Val	Leu	Gly	Glu	Leu	Ala	Pro	Ser	His	Gly	Leu	Val	Ser
														60
Val	His	Gly	Arg	Ile	Ala	Tyr	Val	Ser	Gln	Gln	Pro	Trp	Val	Phe
														75
Ser	Gly	Thr	Leu	Arg	Ser	Asn	Ile	Leu	Phe	Gly	Lys	Lys	Tyr	Glu
														90
Lys	Glu	Arg	Tyr	Glu	Lys	Val	Ile	Lys	Ala	Cys	Ala	Leu	Lys	Lys
														105
Asp	Leu	Gln	Leu	Leu	Glu	Asp	Gly	Asp	Leu	Thr	Val	Ile	Gly	Asp
														120
Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln	Lys	Ala	Arg	Val	Asn	Leu
														135
Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile	Tyr	Leu	Leu	Asp	Asp
														150
Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg	His	Leu	Phe	Glu

155	160	165
Leu Cys Ile Cys Gln Ile Leu His Glu	Lys Ile Thr Ile Leu	Val
170	175	180
Thr His Gln Leu Gln Tyr Leu Lys Ala	Ala Ser Gln Ile Leu	Ile
185	190	195
Leu Lys Asp Gly Lys Met Val Gln Lys	Gly Thr Tyr Thr Glu	Phe
200	205	210
Leu Lys Ser Gly Ile Asp Phe Gly Ser	Leu Leu Lys Lys Asp	Asn
215	220	225
Glu Glu Ser Glu Gln Pro Pro Val Pro	Gly Thr Pro Thr Leu	Arg
230	235	240
Asn Arg Thr Phe Ser Glu Ser Ser Val	Trp Ser Gln Gln Ser	Ser
245	250	255
Arg Pro Ser Leu Lys Asp Gly Ala Leu	Glu Ser Gln Asp	Thr Glu
260	265	270
Asn Val Pro Val Thr Leu Ser Glu Glu	Asn Arg Ser Glu Gly	Lys
275	280	285
Val Gly Phe Gln Ala Tyr Lys Asn Tyr	Phe Arg Ala Gly Ala	His
290	295	300
Trp Ile Val Phe Ile Phe Leu Ile Leu	Leu Asn Thr Ala Ala	Gln
305	310	315
Val Ala Tyr Val Leu Gln Asp Trp Trp	Leu Ser Tyr Trp Ala	Asn
320	325	330
Lys Gln Ser Met Leu Asn Val Thr Val	Asn Gly Gly Gly Asn	Val
335	340	345
Thr Glu Lys Leu Asp Leu Asn Trp Tyr	Leu Gly Ile Tyr Ser	Gly
350	355	360
Leu Thr Val Ala Thr Val Leu Phe Gly	Ile Ala Arg Ser Leu	Leu
365	370	375
Val Phe Tyr Val Leu Val Asn Ser Ser	Gln Thr Leu His Asn	Lys
380	385	390
Met Phe Glu Ser Ile Leu Lys Ala Pro	Val Leu Phe Phe Asp	Arg
395	400	405
Asn Pro Ile Gly Arg Ile Leu Asn Arg	Phe Ser Lys Asp Ile	Gly
410	415	420
His Leu Asp Asp Leu Leu Pro Leu Thr	Phe Leu Asp Phe Ile	Gln
425	430	435
Thr Leu Leu Gln Val Val Gly Val Val	Ser Val Ala Val Ala	Val
440	445	450
Ile Pro Trp Ile Ala Ile Pro Leu Val	Pro Leu Gly Ile Ile	Phe
455	460	465
Ile Phe Leu Arg Arg Tyr Phe Leu Glu	Thr Ser Arg Asp Val	Lys
470	475	480
Arg Leu Glu Ser Thr Thr Arg Ser Pro	Val Phe Ser His Leu	Ser
485	490	495
Ser Ser Leu Gln Gly Leu Trp Thr Ile	Arg Ala Tyr Lys Ala	Glu
500	505	510
Glu Arg Cys Gln Glu Leu Phe Asp Ala	His Gln Asp Leu His	Ser
515	520	525
Glu Ala Trp Phe Leu Phe Leu Thr Thr	Ser Arg Trp Phe Ala	Val
530	535	540
Arg Leu Asp Ala Ile Cys Ala Met Phe	Val Ile Ile Val Ala	Phe
545	550	555
Gly Ser Leu Ile Leu Ala Lys Thr Leu	Asp Ala Gly Gln Val	Gly
560	565	570

Leu Ala Leu Ser Tyr Ala Leu Thr Leu Met Gly Met Phe Gln Trp
 575 580 585
 Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile Ser Val
 590 595 600
 Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro Trp
 605 610 615
 Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val
 620 625 630
 Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro
 635 640 645
 Leu Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys
 650 655 660
 Val Gly Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile
 665 670 675
 Ser Ala Leu Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile
 680 685 690
 Asp Lys Ile Leu Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys
 695 700 705
 Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr
 710 715 720
 Met Arg Lys Asn Leu Asp Pro Phe Lys Glu His Thr Asp Glu Glu
 725 730 735
 Leu Trp Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu
 740 745 750
 Asp Leu Pro Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser
 755 760 765
 Asn Phe Ser Val Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala
 770 775 780
 Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala
 785 790 795
 Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln Lys Lys Ile Arg
 800 805 810
 Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala His Arg Leu
 815 820 825
 Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp Ser Gly
 830 835 840
 Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn Lys
 845 850 855
 Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu
 860 865 870
 Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Val Ile Leu Gln Lys
 875 880 885
 Lys Leu Ser Thr Tyr Trp Ser His
 890

<210> 42
 <211> 453
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <223> GenBank ID No: g1279457

<400> 42

Met	Ala	Leu	Arg	Gly	Phe	Cys	Ser	Arg	Trp	Leu	Arg	Pro	Ala	Leu
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Ala	Ile	Gly	Leu	Phe	Ala	Ser	Met	Ala	Ala	Val	Leu	Leu	Gly	Gly
							20			25				30
Ala	Arg	Ala	Ser	Arg	Leu	Leu	Phe	Gln	Arg	Leu	Leu	Trp	Asp	Val
					35				40					45
Val	Arg	Ser	Pro	Ile	Ser	Phe	Phe	Glu	Arg	Thr	Pro	Ile	Gly	His
							50		55					60
Leu	Leu	Asn	Arg	Phe	Ser	Lys	Glu	Thr	Asp	Thr	Val	Asp	Val	Asp
						65			70					75
Ile	Pro	Asp	Lys	Leu	Arg	Ser	Leu	Leu	Met	Tyr	Ala	Phe	Gly	Leu
					80				85					90
Leu	Glu	Val	Ser	Leu	Val	Val	Glu	Trp	Pro	Thr	Pro	Leu	Pro	Leu
						95			100					105
Trp	Pro	Ser	Cys	His	Cys	Phe	Ser	Ser	Thr	Leu	Gly	Phe	Arg	Trp
						110			115					120
Leu	Ala	Ala	Asn	Val	Glu	Leu	Leu	Gly	Asn	Gly	Leu	Val	Phe	Ala
						125			130					135
Ala	Ala	Thr	Cys	Ala	Val	Leu	Ser	Lys	Ala	His	Leu	Ser	Ala	Gly
						140			145					150
Leu	Val	Gly	Phe	Ser	Val	Ser	Ala	Ala	Leu	Gln	Val	Thr	Gln	Thr
						155			160					165
Leu	Gln	Trp	Val	Val	Arg	Asn	Trp	Thr	Asp	Leu	Glu	Asn	Ser	Ile
					170			175						180
Val	Ser	Val	Glu	Arg	Met	Gln	Asp	Tyr	Ala	Trp	Thr	Pro	Lys	Glu
						185			190					195
Ala	Pro	Trp	Arg	Leu	Pro	Thr	Cys	Ala	Ala	Gln	Pro	Pro	Trp	Pro
					200			205						210
Gln	Gly	Gly	Gln	Ile	Glu	Phe	Arg	Asp	Phe	Gly	Leu	Arg	Tyr	Arg
						215			220					225
Pro	Glu	Leu	Pro	Leu	Ala	Val	Gln	Gly	Val	Ser	Phe	Lys	Ile	His
						230			235					240
Ala	Gly	Glu	Lys	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys
						245			250					255
Ser	Ser	Leu	Ala	Ser	Gly	Leu	Leu	Arg	Leu	Gln	Glu	Ala	Ala	Glu
						260			265					270
Gly	Gly	Ile	Trp	Ile	Asp	Gly	Val	Pro	Ile	Ala	His	Val	Gly	Val
						275			280					285
His	Thr	Leu	Arg	Ser	Arg	Ile	Ser	Ile	Ile	Pro	Gln	Asp	Pro	Ile
						290			295					300
Leu	Phe	Pro	Gly	Ser	Leu	Arg	Met	Asn	Leu	Asp	Leu	Gln	Glu	
						305			310					315
His	Ser	Asp	Glu	Ala	Ile	Trp	Ala	Ala	Leu	Glu	Thr	Val	Gln	Leu
						320			325					330
Lys	Ala	Leu	Val	Ala	Cys	Leu	Pro	Gly	Gln	Leu	Gln	Tyr	Lys	Cys
						335			340					345
Ala	Asp	Arg	Gly	Glu	Asp	Leu	Ser	Val	Gly	Gln	Lys	Gln	Leu	Leu
						350			355					360
Cys	Leu	Ala	Arg	Ala	Leu	Leu	Arg	Lys	Thr	Gln	Ile	Leu	Ile	Leu
						365			370					375
Asp	Glu	Ala	Thr	Ala	Ala	Val	Asp	Pro	Gly	Thr	Glu	Leu	Gln	Met
						380			385					390
Gln	Ala	Met	Leu	Gly	Ser	Trp	Phe	Ala	Gln	Cys	Thr	Val	Leu	Leu
						395			400					405

Ile Ala His Arg Leu Arg Ser Val Met Asp Cys Ala Arg Val Leu
410 415 420
Val Met Asp Lys Gly Gln Val Ala Glu Ser Gly Ser Pro Ala Gln
425 430 435
Leu Leu Ala Gln Lys Gly Leu Phe Tyr Arg Leu Ala Gln Glu Ser
440 445 450
Gly Leu Val